

Portfolio

Danial Alahmad



+966-55-599-2483



alah4d@gmail.com





About me

I am a fresh Computer Science graduate from Michigan State University. I gained valuable experience working within the banking sector as a Software Engineer intern. During my final year project, I worked with Ally financial to create a fraud monitoring dashboard. My objective is to build a career in fintech, working at the intersection of technology and finance.

Danial Alahmad

Al-Khobar, Saudi Arabia | alah4d@gmail.com | +966-55-599-2483 | <https://www.linkedin.com/in/danial-a-a1a926251/>

EDUCATION

Michigan State University, College of Engineering- East Lansing, Michigan

3.677/4 GPA

Bachelor of Science, Computer Science

August 2022 - May 2026

Dean's list 2022, 2023, 2024, 2025, 2026

EXPERIENCE

Michigan State University Federal Credit Union- East Lansing, MI

Software Engineer Intern

May 2025 - May 2026

- Developed in an agile scrum environment in a team of 8 facilitating card and money movement products
- Wrote and documented code in multiple languages including Java, PowerOn, HTML, PHP, Bash
- Earned a certificate in OpCon, learned PowerOn programming and secure Java programming
- Employed tools such as GitLab, Bash, Postman, Enterprise Manager, Quest, RepDev, IntelliJ, Jira, etc
- Communicated across 15+ IT teams and departments to troubleshoot ticket and technical issues
- Shadowed 3 other departments including ethical hacking, Talent Acquisition, and Security
- Held 3+ meetings weekly with business to refine needs and requirements for products

Michigan State University Federal Credit Union- East Lansing, MI

Service Desk Intern

January 2025 - May 2025

- Provided superior IT service to MSUFCU employee's supporting the 2 HQ buildings and 36 branches
- Imaged hundreds of computers, decommissioned devices, recording inventory, and recycling e-waste
- Managed asset levels and collaborated with 2 vendors to repair impacted workstations and printers
- Ensured equipment is stocked in correct storeroom and organized, coordinated with 4 other interns
- Undertook various projects or support tasks such as relocating 200+ assets between buildings

PROJECTS

Ally Financial Fraud Transaction Dashboard MSU Capstone- East Lansing

Developer

January 2026 - May 2026

- Collaborated with a team of 6 to design and deliver a full-stack real-time fraud detection dashboard for Ally Financial, featuring risk scoring, AI-powered explanations, analytics, and geolocation visualization
- Engineered a React/TypeScript/Tailwind frontend with TanStack Table, infinite scroll, live polling, and Recharts analytics for monitoring fraud trends
- Architected a Python/Flask REST API backed by PostgreSQL with cursor-based pagination and a synthetic transaction data generator used to create thousands of synthetic transactions
- Spearheaded database integration, establishing PostgreSQL schema and connectivity, and led development of analytics page

SpartaHack 11 | Volunteer Matchmaker- East Lansing

Developer

February 2026

- Constructed a full-stack volunteer-matchmaking platform at SpartaHack XI, connecting community members to nearby volunteers via skill and location-based matching
- Featured swipe-based job discovery, real-time chat, AI-assisted job posts, an Ethereum donation leaderboard, and a gamified badge system to drive engagement
- Leveraged PostgreSQL, Django, Next.js, Google Gemini, Solidity, and python
- Won third place in the Blockchain category

TECHNICAL SKILLS | CERTIFICATIONS

Computer Softwares: Github, GitLab, Jira, Confluence, Nexpose, Miro, Visual Paradigm, Trello

Programming languages: Python, C, C#, C++, Java, Assembly, HTML, MATLAB, SQL, PowerOn

Certificates: Amazon Junior Software Developer, IBM Applied DevOps Engineering, SMA Basic Training Course (OpCon), Palo Alto Networks Cloud Security Certificate

Ally Financial

Fraud Transaction Monitoring Dashboard

Ally Financial, headquartered in Detroit, Michigan, is a technology-driven bank holding company. Ally provides auto financing, digital banking, mortgage services, and consumer lending to their millions of members.

The shift towards online financial services complicates the already difficult process of detecting unusual transactions. To effectively monitor banking fraud, analysts spend hours combing through transaction data to flag suspicious trends or data.

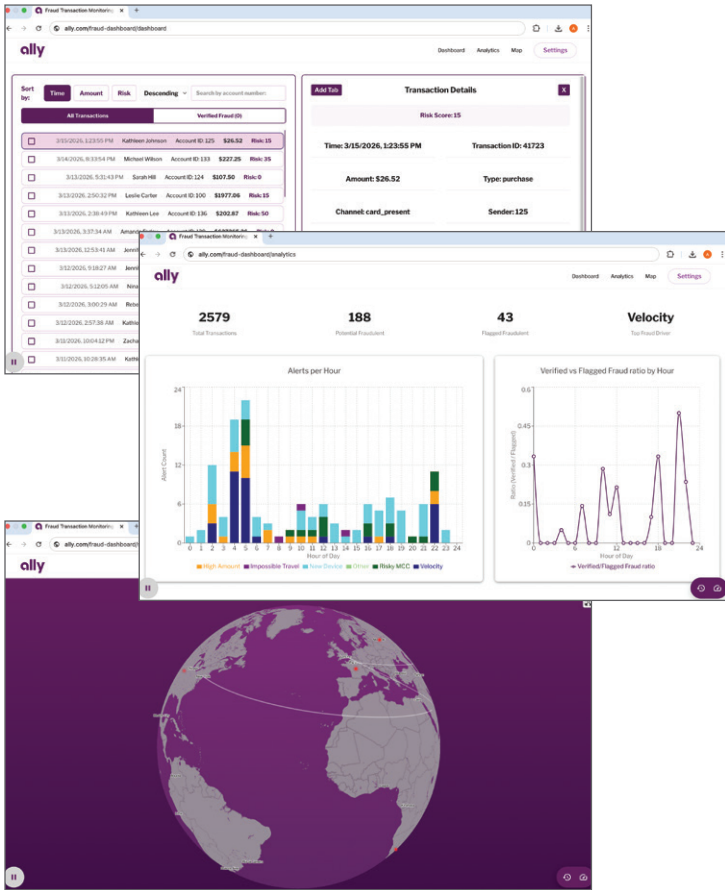
Our Fraud Detection Monitoring Dashboard automatically identifies potential fraud in real time. Each flagged transaction is assigned a risk score and provides a plain-language explanation of the factors that triggered the alert, giving analysts a head start.

Ally analysts review a transaction page that brings together key details in one place, including account history, merchant information, device details, time, and location. A short summary is generated for the analyst that explains why the transaction is marked suspicious. Analysts manually review the information, add comments and make final determinations directly in the dashboard.

To support workflows, our system helps analysts sort and filter alerts and compare similar transactions, focusing on the highest-risk activity first. Our system contains both an analytical view, showing the broad trends in the set of transactions, and a table view, which facilitates studying individual transactions, giving analysts an easy way to monitor both the fine-grained and overall fraud activity.

This tool reduces the effort needed by Ally analysts to identify fraud, and helps teams document decisions, saving time and money.

The front end is implemented in React, TypeScript, JavaScript, and Tailwind CSS. The back end is implemented in Python using the Flask web framework with PostgreSQL for relational data storage. The system uses Ollama to support AI-powered analyses.



Ally Student Members

(left to right)

- Danial Alahmad**
Al-Khobar, Eastern Province,
Saudi Arabia
- Hussein Ahmad**
Beirut, Lebanon
- Glen Scully**
Bakersfield, California
- Andrew Alstead**
Greenville, Michigan
- Andre Sasser**
Port Huron, Michigan
- Quintin Gutowski**
Canton, Michigan

Ally Project Sponsors

- Katie Albus**
Detroit, Michigan
- Jesue (Jes) Jackson**
Detroit, Michigan
- Divyesh Jambusaria**
Charlotte, North Carolina
- Timothy James**
Detroit, Michigan
- Dan Lemont**
Detroit, Michigan
- John Stoutenger**
Charlotte, North Carolina
- Theresa Weaver**
Detroit, Michigan

Project Volunteer Matchmaker

Volunteer Matchmaker is a smart matching platform that:

- Matches volunteers to nearby jobs based on skills, location, and availability
- Gamifies helping with a badge achievement system
- Enables secure communication through built-in chat
- Incentivizes organizations with an Ethereum donation leaderboard

AI-Powered Job Posts

- Smart Description Enhancement — AI helps requesters write clear, compelling job descriptions
- Image Generation — Auto-generate relevant images for job posts

Ethereum Donation Leaderboard

Organizations can receive ETH donations tracked on-chain. Monthly rounds reward top organizations, creating healthy competition for community impact.

Privacy-First Location

- City-level display only (exact coordinates never shown)
- GPS or manual entry
- Revokable permissions anytime

[Devpost Link](#)

[Github Link](#)

To Whom It May Concern,

It is my pleasure to recommend Danial Alahmad for opportunities with software development and engineering. I have had the privilege of serving as his direct manager during his internship within the Engineering Department of our Technology Division at Michigan State University Federal Credit Union, where he has worked for the past four months.

From the beginning, Danial has demonstrated qualities that set him apart from many of his peers at this stage of his career. He is a self-driven and motivated learner, taking initiative to pursue and complete certifications and training including SMA Technologies OpCon Basic Training, the Amazon Junior Developer certification, OWASP Top 10 security training, and our own internally developed PowerOn programming course. This appetite for growth, combined with his genuine enthusiasm for engineering and technology, has allowed him to contribute meaningfully from day one.

Danial has already made tangible contributions to our team's success. He played a significant role in a project to identify and decommission unnecessary service accounts, which strengthened the security posture of several applications. He also helped resolve a defect in our debit card re-issuance process, a fix that eliminated the need for manual intervention by our payments services team and saved them valuable time. These efforts showcased his diligence, technical capabilities, and proactive problem-solving approach.

Equally important, Danial has been an excellent teammate and collaborator. Experiencing his first true agile team with legacy applications, Danial adapted quickly to the environment and demonstrated comfort working alongside others, seeking feedback, and asking probing questions that reveal both intuition and depth of thought. He responds to feedback with openness and shows genuine curiosity about the work, consistently engaging in ways that raise the collective level of the team.

I have no doubt that Danial will continue to excel in any professional engineering environment he chooses to pursue. He has shown initiative, problem-solving skill, and the collaborative spirit that makes a strong engineer. I recommend him without reservation and look forward to seeing his continued growth.

Sincerely,

Tony Curley
Senior Software Engineering Manager
Michigan State University Federal Credit Union
tony.curley@msufcu.org

To Whom It May Concern,

It is my pleasure to recommend Danial Alahmad for the role of software developer. I, Diane Balagna, am a Software Developer at Michigan State University Federal Credit Union and was Danial's mentor throughout his internship with my development team during the 2025 summer and fall semesters. Our team works on developing and maintaining payments applications and internal processes for the credit union, working within Agile methodology. Danial joined us in our daily scrum ceremonies, learned our software development life cycle, and worked with our enterprise GitLab repositories.

Throughout the internship, Danial showed himself to be a self-motivated individual with a strong desire to learn and a hunger for new experiences. Always preferring to stay busy, Danial takes advantage of any available opportunities for learning or taking on new tasks. He participated in shadow sessions with multiple teams across our IT department and completed trainings to expand his skillset. During his internship with MSUFCU, Danial received certification in OpCon Basic Training from SMA Technologies and completed the Amazon Junior Developer certification in addition to OWASP code security training and proprietary lessons in PowerOn, the programming language used for our core banking system. With a combination of individual research and paired programming sessions, Danial was able to familiarize himself with our codebase, standards, and processes used for maintaining our suite of Java and PowerOn payments applications as well as automation systems enabled by OpCon.

As an active participant of our team, Danial consistently shows his engagement by proactively seeking feedback, asking meaningful questions, and expressing genuine enthusiasm for technology and learning. His dedication and passion will make him an asset to any team he joins.

Sincerely,

Diane Balagna Software Developer I, Michigan State University Federal Credit Union

diane.balagna@msufcu.org

Michigan State University

Upon the nomination of the Faculty of the
College of Engineering
has conferred upon

Danial Hazer Alahmad
the Degree of

Bachelor of Science
With a Major in Computer Science

Given under the Seal of the University at East Lansing in the
State of Michigan on this first day of May in the
year Two Thousand and Twenty-six.

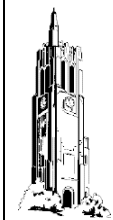
Duane L Scott

Chairperson of the Board of Trustees



Kevin M. Guskiewicz

President of the University



MICHIGAN STATE UNIVERSITY

OFFICIAL ACADEMIC TRANSCRIPT

ISSUED TO STUDENT

ALAHMAD, DANIAL YASER

PRINTED: 05/15/2026

PAGE: 01 OF 02

UIC: 3935965178

STUDENT ID: 181245420

COURSE	TITLE	CRS	GRD	I	EH	COURSE	TITLE	CRS	GRD	I	EH
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UNDERGRADUATE RECORD

PROGRAM: 05/11/2026

ACADEMIC PROGRAM

COLLEGE OF ENGINEERING

COMPLETED PROGRAM

COMPUTER SCIENCE

CUM TOTALS

75.00

CUM GPA

3.700

TERM HONOR: DEAN'S LIST

FALL SEMESTER 2022

08/31/2022 - 12/16/2022

ISS	215	SOC DIFFERENT & INEQUALITY (D)	4.00	4.0
ITL	101	ELEMENTARY ITALIAN I	4.00	4.0
MTH	132	CALCULUS I	3.00	4.0
PHY	183	PHYS SCIENTISTS & ENGINEERS I	4.00	4.0
TERM TOTALS	15.00	TERM GPA	4.000	
CUM TOTALS	15.00	CUM GPA	4.000	

TERM HONOR: DEAN'S LIST

SPRING SEMESTER 2023

01/09/2023 - 05/05/2023

EGR	100	INTRO TO ENGINEERING DESIGN	2.00	4.0
IAH	206	SELF, SOCIETY, TECHNOLOGY (D)	4.00	4.0
MTH	133	CALCULUS II	4.00	4.0
PHY	184	PHYS SCIENTISTS & ENGINEERS II	4.00	4.0
WRA	101	WRITING AS INQUIRY	4.00	4.0
TERM TOTALS	18.00	TERM GPA	4.000	
CUM TOTALS	33.00	CUM GPA	4.000	

TERM HONOR: DEAN'S LIST

FALL SEMESTER 2023

08/28/2023 - 12/15/2023

CSE	231	INTRODUCTION TO PROGRAMMING I	4.00	4.0
IBIO	150	IBIO:FROM DNA TO POPULATIONS	3.00	4.0
ISS	315	GLOBAL DIVRSTY/INTERDEPEND (I)	4.00	4.0
MTH	234	MULTIVARIABLE CALCULUS	4.00	2.5
TERM TOTALS	15.00	TERM GPA	3.600	
CUM TOTALS	48.00	CUM GPA	3.875	

TERM HONOR: DEAN'S LIST

SPRING SEMESTER 2024

01/08/2024 - 04/26/2024

CSE	232	INTRODUCTION TO PROGRAMMING II	4.00	1.5
CSE	260	DISCRETE STRUCTURES COMP SCI	4.00	3.5
EC	201	INTRODUCTION TO MICROECONOMICS	3.00	4.0
IAH	221C	GREAT AGES MODERN WORLD (I)	4.00	4.0
TERM TOTALS	15.00	TERM GPA	3.200	
CUM TOTALS	63.00	CUM GPA	3.714	

TERM HONOR: DEAN'S LIST

FALL SEMESTER 2024

08/26/2024 - 12/13/2024

CSE	320	COMP ORGANIZATION AND ARCH	3.00	3.5
CSE	331	ALGORITHMS AND DATA STRUCTURES	3.00	3.0
MKT	327	INTRODUCTION TO MARKETING	3.00	4.0
MTH	314	MATRIX ALGEBRA I	3.00	4.0
TERM TOTALS	12.00	TERM GPA	3.625	

TERM HONOR: DEAN'S LIST

SPRING SEMESTER 2025

01/13/2025 - 05/02/2025

CSE	300	ETHICS AND PROF ISSUES IN COMP	1.00	4.0
CSE	335	SOFTWARE DESIGN	4.00	4.0
CSE	431	ALGORITHM ENGINEERING	3.00	2.5
EGR	391	ENGINEERING EXPERIENTIAL ED 1	1.00	P
HDFS	238	PERSONAL FINANCE	3.00	4.0
TERM TOTALS	12.00	TERM GPA	3.590	
CUM TOTALS	87.00	CUM GPA	3.686	

TERM HONOR: DEAN'S LIST

SUMMER SEMESTER 2025

05/12/2025 - 06/27/2025

CSE	325	COMPUTER SYSTEMS	3.00	4.0
CSE	480	DATABASE SYSTEMS	3.00	3.5

05/12/2025 - 08/15/2025

EGR	392	ENGINEERING EXPERIENTIAL ED II	1.00	P
TERM TOTALS	7.00	TERM GPA	3.750	
CUM TOTALS	94.00	CUM GPA	3.690	

TERM HONOR: DEAN'S LIST

FALL SEMESTER 2025

08/25/2025 - 12/12/2025

CAS	116	MEDIA SKETCHING & GRAPHICS	3.00	4.0
CSE	450	TRANSLATION PROGRAMMING LANG	3.00	2.5
CSE	471	MEDIA PROCESS AND COMPUTING	3.00	4.0
EGR	493	ADV ENG EXPERIENTIAL ED	1.00	P
GBL	323	INTRO TO BUSINESS LAW	3.00	4.0
PHY	191	PHYSICS LAB FOR SCIENTISTS I	1.00	4.0
TERM TOTALS	14.00	TERM GPA	3.653	
CUM TOTALS	108.00	CUM GPA	3.685	

TERM HONOR: DEAN'S LIST

SPRING SEMESTER 2026

01/12/2026 - 05/01/2026

ACC	230	SURVEY OF ACCOUNTING CONCEPTS	3.00	4.0
CSE	425	INTRO TO COMPUTER SECURITY	3.00	3.0
CSE	472	COMPUTER GRAPHICS	3.00	4.0
CSE	498	COLLABORATIVE DESIGN (W)	4.00	4.0
EGR	494	ADV ENG EXPERIENTIAL ED II	1.00	P
STT	351	PROB & STATISTICS ENGINEERING	3.00	3.0
TERM TOTALS	17.00	TERM GPA	3.625	
CUM TOTALS	125.00	CUM GPA	3.677	

TERM HONOR: DEAN'S LIST

DEGREES AWARDED

DEGREE: BACHELOR OF SCIENCE

PROGRAM: COLLEGE OF ENGINEERING

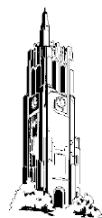
GRANTED: 05/01/2026

PLAN: COMPUTER SCIENCE

Provided Solely For:

Danial Alahmad





MICHIGAN STATE UNIVERSITY

OFFICIAL ACADEMIC TRANSCRIPT
ISSUED TO STUDENT

ALAHMAD, DANIAL YASER

PRINTED: 05/15/2026
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UNDERGRADUATE RECORD

END OF UNDERGRADUATE RECORD

----- NO ENTRIES BELOW THIS LINE-----

Provided Solely For:

Danial Alahmad



William S. Carrell
William S. Carrell
University Registrar



7 Courses

Introduction to Software Development

Programming with Java

Data Structures and Algorithms

Database Management with Java and SQL

Full Stack Web Development

Generative AI in Software Development

Application Development



Oct 16, 2025

Danial Alahmad

has successfully completed the online, non-credit Professional Certificate

Amazon Junior Software Developer

Now that you've completed the Amazon Junior Software Developer Professional Certificate, you possess the essential skills and knowledge to thrive in this dynamic field. These skills enhance your practical experience and career prospects in software development, ensuring you are well-prepared to tackle challenges in both entry-level roles and internships. This certificate is valuable to share within your professional network. Throughout the program, you engaged with hands-on labs, projects, and assessments, mastering fundamental concepts such as: Proficiency in Java programming, encompassing data manipulation, control structures, and object-oriented principles. Expertise in implementing and managing version control systems like Git for collaborative software development.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.



Verify this certificate at:

<https://coursera.org/verify/professional-cert/48M5VQ8MPAUL>



9 Courses

Introduction to DevOps

Introduction to Agile Development and Scrum

Introduction to Containers w/ Docker, Kubernetes & OpenShift

Application Development using Microservices and Serverless

Introduction to Test and Behavior Driven Development

Continuous Integration and Continuous Delivery (CI/CD)

Application Security for Developers and DevOps Professionals

Monitoring and Observability for Development and DevOps

DevOps Capstone Project



Aug 24, 2024

Danial Alahmad

has successfully completed the online, non-credit Professional Certificate

IBM Applied DevOps Engineering

In this Professional Certificate, learners mastered DevOps practices, Agile methodologies and Cloud Native Technologies. The holders of this certificate completed numerous hands-on labs and projects to gain practical DevOps experience. They utilized Scrum and wrote and executed agile user stories using a Kanban board; built & deployed Python microservices using Docker containers, Kubernetes, OpenShift, & Serverless; developed & executed unit tests with test driven development (TDD) methods; applied the process of Continuous Integration / Continuous Development (CI/CD) with GitHub Actions and Tekton, added monitoring, logging & observability and ensured security. The completers of the Professional Certificate are now ready to take on Software Engineering challenges using a DevOps mindset.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

John J. Rofrano
Senior Technical Staff
Member and DevOps
Champion
IBM T.J. Watson
Research Center

Alex Parker
Offering Manager for
IBM Cloud Kubernetes
Service
IBM

Upkar Lidder
Senior Software
Engineer
IBM

Ramanujam Srinivasan

Verify this certificate at:

<https://coursera.org/verify/profession/al-cert/KTEKY54CMCLY>



4 Courses

**Palo Alto Networks
Cybersecurity Foundation**

**Palo Alto Networks
Network Security
Fundamentals**

**Palo Alto Networks Cloud
Security Fundamentals**

**Palo Alto Networks Security
Operations Fundamentals**



Aug 23, 2023

Danial Alahmad

has successfully completed the online, non-credit Professional Certificate

Palo Alto Networks Cybersecurity

The Palo Alto Networks Cybersecurity Professional Certificate prepares students for entry level careers in cybersecurity, with an emphasis on learning the fundamentals of Networking, Network Security, Cloud Security, and Security Operations related to Palo Alto Networks Technology and the cybersecurity industry as a whole. The Cybersecurity Specialization courses including access to additional resources can be used to prepare for the Palo Alto Networks Certified Cybersecurity Entry-Level Technician (PCCET) examination available through Pearson VUE.

PaloAlto Networks Cybersecurity Academy

James Dalton, Palo Alto
Networks Cybersecurity
Academy

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

[https://coursera.org/verify/profession
al-cert/3M6KD4MVSKYK](https://coursera.org/verify/professional-cert/3M6KD4MVSKYK)

CERTIFICATE OF TRAINING

This certificate is proudly presented to

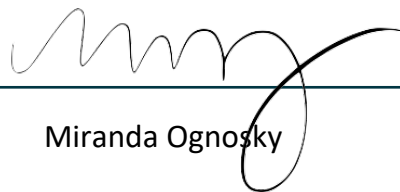
Danial Alahmad

Michigan State University Federal Credit Union

for your Successful Completion of the

SMA Basic Training Course

Presented this 18th day of July in the year 2025.



Miranda Ognosky

