

TIGER MCDANIEL

SDE @ Amazon

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EXPERIENCE

Software Engineer

Amazon 📅 01/2024 - Present 📍 Seattle, WA

As an SDE in Amazon's Prime Finance org, I lead the design, development, and maintenance of scalable full-stack applications. I collaborate closely with scientists to build and operationalize ML models, while optimizing automation pipelines that drive data-informed financial decisions.

I thrive at the intersection of software engineering, machine learning, and automation—constantly seeking innovative, efficient solutions. Passionate about AI, LLMs, and building systems that scale.

- Worked with multiple cross team customers to design and implemented a full frontend solution for running a financial model that informs \$1.5B in financial planning and investment decisions. The results impacting 20 partner teams while saving 10–14 SDE days of effort annually, reducing ticket volume by 5+ per month, and saving +\$2,500/year.
- Owned team ops metrics tracking and led deep dives into \$2.2M in spend across accounts, projects, and teams.
- Participated in the 2024 Prime Hackathon; selected by our director to lead a chatbot POC for Prime Science and present insights to leadership.
- Created an onboarding guide that was used to onboard 4 new team members and build out 5 new wiki pages.
- Led the JDK 17 migration across 5 tech stacks and 12 packages, making our team the first in the org to complete the transition.
- Recognized by the Ads team with a "Problem Resolver" shout-out for documentation and solution explanations that saved 2+ days of SDE debugging across multiple teams.
- Reduced team's code complexity by ~3,000 lines of code while getting unit test coverage up to 99.6%.
- Created an integration test for my team's primary tech stack, resulting in ~\$600/month in cost savings.

Senior Capstone Project

NASA Jet Propulsion Laboratory 📅 08/2022 - 05/2023 📍 Remote

As Project Manager and Software Engineer, I led the full-stack development of a high-fidelity 3D spacecraft simulation for NASA's Jet Propulsion Laboratory (JPL) during a year-long senior capstone. Working closely with a team of six, we delivered a robust simulation tool that supported ongoing research at NASA JPL.

SDE Intern

Amazon 📅 05/2022 - 08/2022 📍 Seattle, WA

As an SDE Intern on the Amazon Robotics Scout Simulation team, I worked on C++ development to enhance 3D visualization software supporting autonomous delivery systems. My contributions improved simulation capabilities critical to real-world testing and deployment of Amazon's robotic technologies.

This role strengthened my skills in high-performance software, robotics simulation, and 3D visualization, while giving me hands-on experience with cutting-edge automation systems.

- Enabled 3D Animation for the simulation of robotics

SUMMARY

I'm a software engineer at Amazon, where I build and maintain full-stack applications in the Prime Finance org. My work spans from backend services to frontend development, along with creating, maintaining, and running ML models to drive data-driven decisions. I've also worked on projects involving AI and LLMs, which fuel my passion for cutting-edge technology and innovation.

EDUCATION

Professional Development

Machine Learning University

📅 12/2024 - Present

Bachelor of Science - BSc, Computer Science

University of Colorado Boulder

📅 08/2019 - 05/2023

High School, Computer Science

Tesla STEM High School

📅 01/2015 - 12/2019

SKILLS

Full-Stack Development Apache Airflow

REST APIs Scala Python JavaScript

Linux React.js Problem Solving

Communication Leadership Teaching

HTML Amazon Web Services (AWS)

Data Structures Data Science

Troubleshooting Web Development

Web Design Web Applications Mac OS

Cloud Compute