Eric Mamani

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Education

Master of Science in Computer Science   **Anticipated: 12/2026**
Arizona State University   Tempe, AZ
Bachelor of Science in Computer Science   **Graduated: 12/2024**
Brigham Young University - Idaho   Rexburg, ID
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Full-Stack Web Development, Database Design & Management, Cloud Computing, Machine Learning

Work Experience

Software Engineer Intern   **May 2025 - Present**
Amazon.com   Irvine, CA
- **Architected and led the end-to-end development** of a Data Management Tool, a critical self-service platform for managing large-scale A/B tests, **empowering product teams** with data-driven insights.
- Engineered a **scalable full-stack solution** using **TypeScript and React** for an accessible, intuitive UI, and developed **serverless backend microservices** with **Python, AWS Lambda, and DynamoDB** to ensure robust data processing and management.

Software Engineer Intern   May 2024 - October 2024
General Motors   Austin, TX
- **Established** a Continuous Integration (CI) testing pipeline using Java and TestNG, automating 100% of manual checks to run daily and pre-deployment, which enabled early bug detection and increased code quality.
- Drove a full-stack project from conception to deployment using **JavaScript and React**, creating a data-driven solution that directly resulted in a **15% increase in user satisfaction scores**.
- Collaborated in **Agile/Scrum teams** to deliver high-quality software on a regular sprint cycle, participating in sprint planning, design, code reviews, and daily stand-ups

Software Engineer Intern   May 2023 - July 2023
Amazon.com   Tempe, AZ
- Developed a new UI operating **React**, Angular, and **AWS** for customers to input and validate deal information, improving error feedback on invalid requests
- Designed and implemented **REST APIs** and backend services using **Java**, automating data integrity checks to improve the deal validation process efficiency by **20%**.

Projects

Math Mobile Application   December 2024
- Designed a mobile application using Android Studio and Java to assist users in learning math problem-solving techniques efficiently, improving user engagement and comprehension
- Applied Object-Oriented Programming (OOP) principles to reduce 20% of initial code complexity while improving software maintainability, readability, and reusability

Text Generator   December 2023
- Built a machine learning model leveraging an LSTM neural network, taking 5444 tokens to generate text with style from input text

Technical Skills

- Full Stack Development: Java, JavaScript, React, TypeScript, HTML, CSS, Angular, Node.js
- Back End Development: Java, Python, Go, C#, C++, SQL, NoSQL, DynamoDB, MongoDB
- AI / Machine Learning: Python, PyTorch
- Cloud & DevOps: AWS, GCP, Azure, Docker, Microservices, REST APIs, Jenkins
- Developer Tools: Git, GitHub, Jira, VS Code, IntelliJ IDEA, Swagger