

Lance McMahon

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[LinkedIn](#)



[GitHub](#)

EXPERIENCE

Amazon Web Services | Java, Python, Linux, Git, AWS, more

SDE I

Fall 2024 - Today

[Amazon Web Services](#)

- Designed, built, and operated high-throughput generative AI backend services powering Amazon's agentic developer experience (Kiro, formerly Amazon Q Developer), deployed on AWS ECS
- Drove development across distributed systems, infrastructure, and product features in a fast-paced, production environment
- Scaled backend architecture to General Availability, supporting 10,000+ real-time streaming inferences per minute, 100,000+ daily active users, and 99% availability with low latency, including production on-call ownership

RocketScribe | React, React Native, TypeScript, Firebase, Objective-C, C++, C

Application Developer

Summer 2023

[RocketScribe](#)

- Built and maintained a mobile app providing on-device AI speech-to-text transcription

- Integrated a C++ ASR system optimized for Apple Neural Engine, reducing inference latency on-device

- Achieved 1,000+ downloads with a 5 star App Store rating

Texas Tech University SmartBioMed Laboratory | Python, Jupyter, Bash

Undergraduate Research Assistant

Summer 2023

[TTU SmartBioMed Lab](#)

- Conducted feature engineering and evaluation for an automated glaucoma detection system, achieving 83–100% validation accuracy across multiple classifiers

MonkyChat | React Native, JavaScript, Node.js

Application Developer

Summer 2021

- Built and deployed a minimalist mobile chat application using React Native and Node.js

PUBLICATIONS

A Novel Prediction Method for Glaucoma Detection Using Retinographies

Conference Paper

Fall 2023

<https://ieeexplore.ieee.org/document/10436242>

- Helped research and develop an automated glaucoma detection system from scratch with machine learning
- Presented our team's research at the IEEE C3 Conference in 2023

EDUCATION

Florida State University

B.S. Computer Science, Minor in Physics

August 2024

Tallahassee, FL

- **GPA:** 3.7

- **Awards:** President's List (x3), Dean's List (x3)

- **Classes & Activities:** Data Structures & Algorithms, Operating Systems, Software Engineering, Intro to AI

TECHNICAL SKILLS

- **Languages:** Java, Python, C++, JavaScript, TypeScript, C, Objective-C
- **Databases:** DynamoDB, MongoDB, Firebase, SQL
- **Tools & Frameworks:** AWS, Git, Linux/Unix, React, React Native