LEUL MESFIN

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Education

University of Maryland, College Park   **Aug. 2020 – May 2024**
Bachelor of Science in Computer Science, General Business Minor   *College Park, MD*

- Object-Oriented Programming
- Data Structures
- Systems Programming
- Algorithms
- Linear Algebra
- Compilers
- Advanced Data Structures
- Database Design
- Computer and Network Security

Experience

Panda Programmer | *Lead Coding Instructor*   **Nov. 2024 - Present**

- Inspiring a love of Computer Science and coding to K-8 students through **Python**, **JavaScript**, and **Scratch**.
- Helping students develop foundational skills in logical thinking, teamwork, and problem-solving.
- Designing lesson plans, managing classrooms with a diverse group of students, and ensuring a safe, yet exciting learning environment.

Projects

Qebero | *React, TypeScript, TailwindCSS, OpenAI API, AWS DynamoDB, AWS Lambda, AWS Cognito*   **February 2025**

- Developing a full-stack language learning site to help my friends and I learn Amharic: a language common in Ethiopia.
- Utilizing the **OpenAI API** to generate custom AI-generated Amharic lesson plans, quizzes, and exams.
- Leveraging **AWS Cognito** to allow safe and secure user authentication.

Gainz | *React Native, TypeScript, Python, AWS DynamoDB, AWS Lambda, Clerk*   **August 2024**

- Co-developed a social media and fitness mobile application using **React Native/Expo** and **agile software development**.
- Developed an **AWS Lambda** using **Python** to handle data operations and interact with the back-end **DynamoDB(NoSQL)**.
- Leveraged **Clerk** to establish a robust and secure authentication system for users.

Music Transfer | *Java, JavaScript, TypeScript, React, Spring Boot, JWT Web Token, TailwindCSS*   **August 2024**

- Built a **React** web application that transfers Spotify playlists to Apple Music.
- Constructed a **Restful API** with **Spring Boot** to handle authentication and calls to the Spotify Web API.
- Utilized **Java** to process Spotify API data into a usable format for the client-side.

Mini-Compiler for Bindings | *Racket, x86 Assembly*   **October 2023**

- Extended a Compiler and assembled an interpreter with binding forms and primitives, that can take any number of arguments.
- Implemented error checking and mimicked Racket functionality for expressions such as let, let*, cond, case, etc.

Technical Skills

Languages: SQL, Python, Java, JavaScript, TypeScript, HTML, CSS, PHP, Ruby, Racket, C/C++, x86/MIPS Assembly
Tools/Technologies: AWS, Firebase, Git, Postman, Docker, Apache Maven, RESTful APIs, Node.js, Make, Jira
Frameworks: React.js, React Native, Express.js, Spring Boot
Databases: MySQL, NoSQL (MongoDB, Firestore, DynamoDB)

Leadership / Extracurricular

College Success Scholars   **Team Leader and Peer Mentor**
June 2021 – January 2023   *Office of Multi-ethnic Student Education*

- Mentored four Computer Science undergraduates at the University of Maryland, College Park.
- Provided course and schedule advice, gave moral support/guidance, and connected my mentees to tutoring resources over the course of multiple semesters.

TLDR | *Open Source Contributor*
Nov. 2024 - Present

- Contributing to documentation for *Pulumi*: a modern infrastructure as a code platform that allows you to use familiar programming languages and tools to build, deploy, and manage cloud infrastructure.