

COLE AMLONG

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2024

Bachelor of Science, Computer Science

GPA: 3.34

Minor in Business

Relevant Coursework: Data Structures, Operating Systems, Web Search and Retrieval, Software Engineering, Computer Architecture, Neural Networks, Compilers, Wireless Networks, Algorithms, Web Applications

SKILLS

Languages: Proficient in Python, JavaScript; Intermediate in Java, C#, SQL, HTML, CSS; Basic in C, C++

Technologies: ReactJS, Python Packages (Flask, Selenium, PyTorch, Numpy, etc.), Unix (Linux), Git, Docker, GraphQL, Kubernetes (AKS), Postman, OAuth, Bootstrap, .NET, AWS (Amplify), Unity Engine, Excel, JUCE

Concepts: Agile Development, RESTful APIs, CI/CD, Object Oriented Programming, Machine Learning, Audio Synthesis and Processing

EXPERIENCE

University Federal Credit Union, Austin, TX

June 2022 - August 2022

Application Developer Intern

- Developed an end-to-end, full-stack consumer loan application system using **C# (.NET)**, **ReactJS**, and **MySQL**.
- Excelled in a fast-paced, **Agile development** team while interviewing and incorporating feedback from Finance, Marketing, UI/UX, and Data Warehouse teams.
- Reduced personal loan application decision time by 18+ hours per application for customers.
- Traversed complex system architecture with **Docker**, **GraphQL**, and **Kubernetes (AKS)**.
- Fabricated new consumer UI workflows for Unsecured Personal Loan Applications with **ReactJS**.

PROJECTS

Audio Plugin Library

September 2023 - Present

C++, JUCE, Audio Synthesis and Processing

- Experimenting with multichannel signal processing techniques to build an array of audio plugins including a gain controller, plate reverb, delay, and digital synthesizer.
- Harnessing the industry standard **JUCE** framework to develop plugins for Windows, MacOS, and Linux.

Spotify Playlist Generator

September 2023 - November 2023

JavaScript, ReactJS, Bootstrap, RESTful APIs, OAuth

- Employed various endpoints of the Spotify **RESTful API**, enabling users to explore new music through a selection of "seed" songs.
- Implemented Spotify **OAuth** service, allowing users to sign in with their own accounts and get personalized results based on their listening history.

GeoJobs

September 2022 - December 2022

Python, JavaScript, ReactJS, SQL, Flask, AWS (Amplify), CI/CD, RESTful APIs, Unix

- Developed a fullstack database visualization web application that aggregates data from popular geography, job board, and real estate APIs to help jobseekers find ideal housing in hiring cities.
- Facilitated interaction between a **MySQL** database, custom **Flask RESTful API**, and **ReactJS** user interface.
- Implemented an intuitive cross-page search function, allowing users to quickly filter and find relevant content.
- Ensured application correctness and readability through a robust infrastructure of unit tests and documentation. Automated deployment with a custom **CI/CD** pipeline.