Matthew Lin

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EDUCATION

University of Texas at Austin   **Austin, TX**
BS in Computer Science and Mathematics   *Expected graduation - May 2025*
Minor in Business

GPA: 3.8

Relevant Coursework: Data Structures, Algorithms and Complexity, Computer Organization and Architecture, Principles of Computer Systems (Operating Systems)

EXPERIENCE

Capital One   **McLean, VA**
Software Engineer Intern   *Jun 2024 - Aug 2024*

- Driving the creation of a machine learning engine aimed at promoting inclusive language usage within Capital One
- Engineering a robust natural language processing model in Python to identify non-inclusive terms and provide alternative suggestions
- Developing a Chrome Extension using React and TypeScript to automatically detect and highlight non-inclusive terms in user-generated content
- Preparing the system for enterprise-wide deployment, projected to be available to all associates at Capital One upon completion

Capital One   **Plano, TX**
Software Engineer Intern   *Jun 2023 - Aug 2023*

- Collaborated with four other interns to develop, test, and deploy an external event gateway capable of processing **1 million** third party events per day
- Created Java Spring Boot application that interacted with AWS Eventbridge and AWS Lambda functions to handle data enrichment and reconciliation
- Facilitated product progression across the software development lifecycle; deployed across dev, QA, perf, and prod environments
- Wrote **over 40** comprehensive unit tests with JUnit and Mockito to ensure robust code quality
- Prepared and delivered presentation showcasing the final project to business leaders and associates

Nelnet   **Lincoln, NE**
Software Engineer Intern   *May 2022 - Dec 2022*

- Developed **over 20** RESTful API endpoints using Node.js and deployed using AWS Lambda
- Accelerated Github workflow run speed by more than **70 percent** by optimizing backend unit and end-to-end tests to run in parallel
- Documented endpoints with the Open API standard via Swagger and used ESLint to standardize the codebase
- Built responsive web components using HTML, CSS, Javascript, and React based on UI design frames in Figma
- Migrated **300+** frontend tests from Enzyme to React Testing Library to match industry standards
- Participated in agile ceremonies including daily standups, weekly one-on-one meetings and biweekly sprints

PROJECTS

Spotify Recapped
- Used Spotify Web API to display statistics about a user's most listened to artists, songs, and genres over various time frames
- Designed and built using a React frontend and Express backend with OAuth2 standard authorization

Guess the City
- Created fullstack web-based quiz game in which the player guesses cities based on pictures of their skylines
- Designed and built using React and Redux on the frontend, and Node.js and Express on the backend; hosted using Heroku and Netlify

SKILLS

- **Languages:** Java, Python, C, C++, HTML/CSS, Javascript, Typescript
- **Frameworks and Libraries:** Spring Boot, Maven, React, Express, Redux, Jest, Flask, Selenium, Beautiful Soup
- **Tools and Technologies:** Git, AWS, Command line, Node.js, ESLint, Lerna, MongoDB, Terraform, Heroku, Netlify, Anaconda, Jira, Confluence