

Matthew Lin

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EDUCATION

University of Texas at Austin

BS in Computer Science

Minor in Business

Austin, TX

Expected graduation - May 2025

GPA: 3.8

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

EXPERIENCE

Capital One

Software Engineer Intern

Plano, TX

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

Software Engineer Intern

Lincoln, NE

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

OneBike

- Worked with a team of 5 to design and develop a web application to track the location of bikes across the Capital One campus
- Developed interactive map interface using LitElement and Typescript; created HTTP request handler to update bike locations in real time
- Completed in 72 hours as part of Capital One's 2023 TIP Hackathon

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

E-Commerce Product Recommender

- Made online shopping tool that scrapes Amazon for a specified product and lists the top results using a recommendation algorithm based on the user's personal preferences
- Wrote webscraping script with Selenium and built web app with Flask

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, BeautifulSoup
- **Tools and Technologies:** Git, AWS, Command line, Node.js, ESLint, Lerna, MongoDB, Terraform, Heroku, Netlify, Anaconda, Jira, Confluence