

MOHAMMED ALAM

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EDUCATION

Rochester Institute of Technology

Rochester, NY

Bachelors of Science in Software Engineering, Minors in Economics & Mobile Dev. GPA: 3.63

Expected Graduation May 2025

TECHNICAL SKILLS

Languages: Java, Python, HTML/CSS, SQL, JavaScript, TypeScript, C, C++, Dart

Frameworks: Next.js, Selenium, Pytest, JUnit, React, Angular, Maven, Jest, Flask, Next, Flutter, Redux

Developer Tools: Git, Figma, AWS, Postman, Insomnia, PostgreSQL, Terraform, CloudForge, Jira

EXPERIENCE

Software Engineer Intern

June 2023 – August 2023

Fidelity Investments

New York, NY

- Designed Wireframes and 7 Prototypes of a Securities Exchange platform, aiding in the patent process, with Figma
- Engineered a Full Stack Trading Platform, that will exchange millions of dollars, implementing Angular and Oracle SQL
- Founded an NLP Research Project, with a team of Interns to enhance company operations such as onboarding

Software Engineer Co-Op

August 2022 – December 2022

Amplify Education

New York, NY

- Modernized 3 company projects, by updating old design components in Figma, and integrating new components in React
- Improved 5 Projects' functionality and reduced throttling by Refactoring and Expanding existing Redux & Flask APIs
- Created a CI/CD ReactJS app to aid students in increasing grades by consulting a team of Data Scientists and UX Designers

Software Engineer Intern

May 2022 – August 2022

Liberty Mutual Insurance

Indianapolis, IN

- Developed a REST API for Uber, hosted on Amazon's API Gateway, reducing previous request load time by 35%
- Created AWS Lambda Functions for Uber to modify insurance data stored in AWS Aurora, decreasing call time by 24%
- Launched an internal advice-sharing app in 1 week, leading an Agile Intern Team as a Project Manager & UI/UX Designer
- Optimized AWS Project setup time by 2 hours, by assisting in the development of an AWS CDK Constructs Python template

Teacher's Assistant

August 2021 – May 2022

Rochester Institute of Technology

Rochester, NY

- Coached students using experience in Python, utilizing team exercises, leading to 20% increases in exam grades
- Reduced grading time by 65% for assignments done in Python and Java for Computer Science 1, leveraging Python scripts

Data Engineer Intern

June 2021 – August 2021

NYC Office of Technology & Innovation

New York, NY

- Developed a REST API to streamline users' time by aggregating over 23 data sources to just 1 using Java Spring Boot
- Designed a Responsive Angular UI to view data, eliminating the need for users to parse through 100+ JSON files
- Decreased request wait time for a Secure Document Transfer App's REST API by 43%

PROJECTS

Music Soulmate | Next.js, Spotify API, React, MongoDB, Node, Python (Spotipy)

June 2023 – Present

- Constructed a full-stack music taste-matching app, applying the Spotify API, OAuth2 authentication, and ReactJS
- Administered Spotify API integration to process users' music data, using Spotipy for tailored music recommendations
- Devised music taste algorithms by leveraging Python's data analysis libraries, for precise music preference matching

Wisely | React, Java, Spring Boot, Maven, PostgreSQL, Git

May 2022 – April 2023

- Built an app to keep track of users' financial status, spending habits, saving goals, and affordability checks for purchases
- Implemented Responsive Design to make a CRUD app using ReactJS, a Spring REST API, and a PostgreSQL database
- Practiced Software Engineering practices, planning out a design document, UML Diagrams, and Sequence Diagrams

LEADERSHIP EXPERIENCE

Organizations: Codepath.org (Coach & Student - Advanced Software Engineering), Microsoft Tech Resilience Program (Mentee), Society of Software Engineers (Tech Lead), Computer Science House, Google Student Developers

Awards: 2nd place in RIT Datafest Hackathon 2023 (External Data Category), 3rd place in RIT Tiger's Game Jam Hackathon 2023 (Retro). Liberty Mutual Hackathon 2022 (Team project became an official product)