Mohammed Alam

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Education

Rochester Institute of Technology   Rochester, NY
Bachelor of Science in Software Engineering, Minors in Economics, Web, and Mobile Dev   *Aug. 2020 – 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 Engineering Intern   June 2023 – August 2023
Fidelity Investments   *New York, NY*
- Designed Wireframes and Prototypes of a Securities Exchange platform with Figma, soon to be patented.
- Implemented Angular JS to build the application's front end, utilizing component-based design to modularize pages.
- Founded a Natural Language Processing (NLP) Project to enhance company operations such as onboarding.

Software Engineering Co-Op   August 2022 – December 2022
Amplify Education   *New York, NY*
- Built components in Figma with the company-style theme, and integrated them in React into company software
- Integrated new Backend events in Flask REST APIs and added new features to existing PHP backend sites
- Created a CI/CD Fullstack React App with new features from discussions with Data Scientists & UX Designers

Software Engineering Intern   May. 2022 – Aug. 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%.
- Project Manager & UI/UX Designer for an Agile Intern team, developing an internal advice-sharing app.
- Helped develop an AWS CDK Constructs Python template, decreasing the time needed to set up projects by 2 hours.

Data Engineering Intern   June 2021 – August 2021
NYC Office of Technology & Innovation   *New York, NY*
- Built a Full Stack Application via an HTML, CSS, JS front-end & a Java Spring Backend, with a MySQL Server.
- Designed a Responsive Web Design UI, and included more functions not available with the current API.
- Decreased request wait time for a Secure Document Transfer App's REST API by 43%.

Teacher's Assistant   May. 2022 – Aug. 2022
Rochester Institute of Technology   *Rochester, NY*
- Guided students using my experience in object-oriented programming, leading to increases in exam grades by 20%
- Using Python scripts, decreased grading time by 65% for assignments done in Python and Java for Computer Science 1

Projects

Music Soulmate | *Python, Flask, React, PostgreSQL, Docker*   June 2020 – Present
- Constructed a full-stack music taste-matching app, applying the Spotify API, OAuth2 authentication, and Next.js
- Utilized API integration to process music data, incorporating Node.js and Express for tailored music recommendations.
- Devised a music taste algorithm by leveraging Python's data analysis libraries, for precise music preference matching.

Wisely | *Spigot API, Java, Maven, TravisCI, Git*   May 2018 – May 2020
- An app to keep track of a user's financial status, spending habits, saving goals, and affordability checks for big purchases.
- Implemented Responsive Design to make a CRUD app using ReactJS, a Flask 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 (External Data Category), 3rd place in RIT Tiger's Game Jam Hackathon(Retro). Liberty Mutual Hackathon (Project became an official product)