Mohammed Alamgir

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Education

University of Southern California;   **December 2024**
Bachelor of Science in Computer Science and Business Administration
- *Questbridge Scholar* - Competitive scholarship
- **Relevant Coursework**: Data Structures and Object-Oriented Design, Introduction to Algorithms and the Theory of Computing, Full-Stack Web Development, Linear Algebra and Differential Equations, Discrete Methods in Computer Science

Skills

Languages: Python, C++, C#, HTML/CSS, JavaScript, Java, R, SQL
Frameworks/Technologies: Flask-RESTful, Flask, React, ASP.NET, Git, Postman, JupyterLab, Figma, Vue.js, Bootstrap

Work Experience

SQUID3 Space   **May 2023-August 2023**
Software Engineering Intern
- Drafted mockup of web application with user workflow and stakeholder requirements in mind [**Figma**]
- Developed aesthetic web pages to simplify user experience while abstracting complexities [**React, HTML, CSS**]
- Successfully integrated Firebase to implement an easy to use and robust user authentication process [**Firebase**]
- Utilized real-time data to predict the passings of 8000+ satellites and determine potential disturbances [**Skyfield**]
- Created API to efficiently manage varied user requests and streamline data processing [**Flask, PostgreSQL**]
- Spearheaded management of tasks to prioritize time management and clear communication within team

GSK (via Atrium)   **June 2022-August 2022**
Software Engineering Intern
- Developed API to enable required features in the DevSecOps dashboard pipeline [**Flask-RESTful, Python**]
- Modified dashboard APIs to comply with the existing Kafka and ELK Stack requirements **[Pandas, NumPy]**
- Developed a 3-tier contract software feature implementation **[C#, ASP.NET]**
- Created unit tests for the developed APIs with over 99% code coverage **[Pytest, Postman, C#]**
- Researched and developed POC for Luigi package **[Luigi]**
- Presented technical report which led to Luigi's integration to the team's existing codebase

Projects

SalStocks   **September 2022-October 2022**
- Parsed JSON and CSV files to store stock database and future stock trades, also checked for valid input **[Java]**
- Implemented multi-threading to simulate stock trades by stock brokers set by user-inputted files

mealShare - hackSC - Hackathon   **January 4th, 2021-January 6th, 2021**
- Utilized designing tools to create a mockup and designed user workflow for the app **[Figma]**
- Designed and created aesthetically pleasing web pages, focusing on simplifying user experience **[HTML, CSS]**
- Designed database on DBDiagram and set it up on Cloud Firestore **[Firestore]**

Leadership

Association of Computing Machinery - University of Southern California Chapter   **October 2021-Present**
Operations Chair (E-board)
- Developed resume book database (150+ resumes) that utilizes option trees to make it organized
- Conduct meetings with corporate representatives to organize sponsorships and manage corporate officers
- Helped organize Industry Day (80+ attendees) and ACM hackathon (90+ attendees) and judged final contestants