

Mohammed Alamgir

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Education

University of Southern California;

May 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, ASP.NET, Git, Postman, JupyterLab, Figma, React, Vue.js, Bootstrap

Work Experience

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

University of Southern California Information Technology Services

September 2021-Present

Remote Student Computer Consultant

- Diagnose technical issues to assist customers in fields related to cybersecurity, authentication, and database
- Utilize ITS knowledge base to create new solutions and implement older ones
- Document connectivity and authentication use-case issues with USC's account systems

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

Corporate 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 2 corporate officers
- Helped organize Industry Day (80+ attendees) and ACM hackathon (90+ attendees) and judged final contestants

Interests: *Middle-Eastern History, Weightlifting, Pakistani Music, Gaming, Nature Walks*