Mohammed Adnan Hossain

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science

Aug. 2021 - Dec 2024

EXPERIENCE

Software Engineering Intern

January 2023 – May 2023

MerchLogix

Atlanta, GA

- Made an observability dashboard using PHP and provided clients with key insights about their KPIs leading to a 28.2% average increase in monthly client satisfaction
- Integrated the planogram visual feature into client-side software which led to a 14% increase in monthly clients by using glTF JSON Library for the visual feature along with Javascript, PHP, and HTML for the software
- Eliminated the need for manual steps from Product Support through the implementation of automated processes responsible for downloading and emailing the payment dues reports to the clients using Perl and Python cron jobs hosted on GitHub Actions

Software Engineering Intern

May 2022 – Aug 2022

MerchLogix

Atlanta, GA

- Coordinated with clients to translate database requirements into an ERD model and subsequently a database model that serves a Transcription Agency with over 1000 transcribers having over a million client interactions
- Introduced the functionality of tracking payments through schema modification, database code changes and integrated this functionality with existing software using pg_connect API and PHP

Undergraduate Research Assistant

Jan 2022 – Present

Georgia Institute of Technology

Atlanta, GA

- Collaborated on the design and implementation of a new Binary Classification algorithm utilizing ResNet50-CNN to classify football game plays, resulting in a notable 18% improvement in prediction accuracy
- Incorporated Markov Chains to create a probability matrix which filtered the data and helped achieve 87.26% accuracy which is the highest recorded accuracy in the field.
- Documented our methods and processes for our presentation at MIT Sloan Sports Analytics Conference
- \bullet Optimized the battery life by 46% for the CC3235SF device by implementing a feature to retrieve voltages from multiple single ADC channels and automating the process using a timer feedback function
- Reduced 100% of manual labor and time required in collecting and writing code into the device chip periodically by deploying a feature to merge code changes over-the-air(OTA) to the devices located in the stadium

Projects

Integrated Bank Application System | Spring, Java, Maven, Docker, Kubernetes

Dec 2023 – Present

- Designed and assembled microservices architecture for Accounts, Cards, and Loans applications using SpringBoot, facilitating seamless communication via REST APIs
- Orchestrated deployment with Docker and Kubernetes, ensuring scalability and reliability, while integrating Apache Kafka for event-driven communication in a comprehensive bank application

NetWorker | Javascript

August 2023 – September 2023

- Developed a JavaScript-based Chrome extension to automate LinkedIn connections requests
- Facilitated DOM manipulation to personalize notes and expedite connection requests with a single click on the 'Connect' button, resulting in a 50% reduction in time spent on networking processes

Chat Room | Network Programming, C++, TCP, UDP, Git

October 2022 – November 2022

- Designed a simulated chat room app using UDT sockets allowing users to interact and send text messages
- Coded a Python program utilizing JSON to generate and securely store SHA-256 encrypted passwords

TECHNICAL SKILLS

Languages: Python, Java, Perl, C/C++, SQL (Postgres), JavaScript, Typescript, HTML/CSS, PHP, Swift

Frameworks: React, Node.js, Flask, JUnit, REST API, Flutter, Spring, Maven, Jupyter Notebooks, Agile, SCRUM

Developer Tools: Git, Docker, VS Code, IntelliJ, Linux, BitBucket, Vim, JIRA, Slack

Libraries: NumPy, TensorFlow, Keras, Kubernetes, PyTorch, Lambda