

MUTASIM CHOWDHURY

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science, GPA: 3.9

Atlanta, GA

Aug. 2020 – Spring 2024

University of Texas at Dallas

Bachelor of Science in Computer Engineering, GPA: 3.4

Richardson, TX

Aug. 2016 – May 2020

EXPERIENCE

Gusto

Software Engineer Intern

May 2022 – August 2022

San Francisco, CA

- Implemented asynchronous APIs within the Rails framework leveraging Sidekiq to provision demo companies, improving the efficiency of partner developer API testing
- Enhanced the Developer Portal front-end using React and TypeScript, optimizing API data visualization and user interaction
- Led a documentation-driven development effort to specify Embedded Payroll API requirements through partner meetings
- Managed project deliverable timelines to ensure the timely release of the Developer Portal minimum viable product

ARGO Data

Software Engineer Intern

May 2019 – August 2019

Richardson, TX

- Assisted in removing product dependencies on Internet Explorer to bolster security for financial institutions, enhancing the safety of 100 million daily transactions
- Refactored Teller Payments software to utilize modern asynchronous JavaScript paradigms, improving maintainability and performance
- Updated UI/UX design to ensure a responsive and consistent look-and-feel across ARGO applications
- Utilized JIRA user stories to triage incoming defects from QA and testing teams, and participated in regular Scrum meetings and sprint reviews

PROJECTS

q3p LLC | A consulting company built to bolster and build online communities

- Collaborated with renowned music and gaming entities as a proactive consulting agency.
- Orchestrated strategic initiatives to drive fan base expansion, interaction, and seamless onboarding for clients.
- Spearheaded the creation and upkeep of Discord bots using Python, catering to over 500k daily active users.

I.R.I.S. | Python, C, NVIDIA Jetson, Omnipresense

- Developed an Intelligent Radar Implemented System for Crosswalk Navigation to assist visually impaired pedestrians, successfully tested in real-world crosswalks.
- Implemented TensorRT optimized YoloV3 for pedestrian detection with 99% accuracy within 20 meters, improving safety and detection speed by 50%.
- Designed conditional GPIO signal toggling on the Jetson TX2 SoM to inform vehicles about pedestrian presence using LEDs, enhancing traffic flow and safety.

Taurscribe | FastAPI, HuggingFace, Tauri, NumPy

- A realtime transcription Tauri desktop application that transcribes anything coming through a user's speakers in English.

TECHNICAL SKILLS

Programming Languages: Python, Ruby, TypeScript, JavaScript, C/C++, Rust, SQL

Frameworks and Libraries: Rails, React, Django, Sidekiq, pandas, numpy, PyTorch, FastAPI

Tools: Docker, Git, JIRA, Figma, Unity

Databases: MySQL, PostgreSQL, MongoDB