

Mahit Mehta

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PROFESSIONAL EXPERIENCE

Bloomberg L.P. - MSE Operability Solutions Team Software Engineering Intern

Jun 2024 - Aug 2024
Jun 2023 - Aug 2023

- **Rearchitected** Bloomberg's Quality Control (QC) library, migrating and refactoring legacy checks into a modernized Python framework.
- Developed a **Golang API** paired with a **React** frontend to enable manual initiation and selective omission of QC checks, with states persistently stored in PostgreSQL, **preemptively preventing predictable failures**—particularly after OS upgrades, which could otherwise halt server deployment
- The QC library verifies server conditions—including timezone accuracy and disk space availability—and **confirms critical services are active, logging any discrepancies** to Bloomberg's internal monitoring systems
- Enhanced the library's robustness by implementing strict type annotations and **rigorously testing across multiple platforms** (RHEL, Solaris, AIX, Windows)
- Received tremendous **positive feedback from Server Operators** after presenting my work at the end of my internship
- Deployed the application using an internal **Kubernetes** platform and **Docker**.
- This improved QC framework significantly **enhanced maintainability, reliability, and uptime** for Bloomberg's server infrastructure.

Haul (haulcompliance.com) Fullstack JavaScript Developer Intern

Jun 2021 - Sep 2021 (Remote)

- **Led the integration** of **Electronic Logging Device (ELD)** data into Haul's admin portal, providing **real-time graphical updates** of Haul's **CDL drivers' locations and events**.
- Leveraged real-time ELD events to **automatically calculate precise driver working hours**
- **Engineered periodic data retrieval** using **Redis Bull Queue** in a **Nest.js** environment, efficiently querying live driver events from ELD providers.
- Designed and **optimized data storage solutions** with **MongoDB**, ensuring robust persistence and rapid access to critical driver event information.
- Developed and enhanced responsive Functional React Components for Haul's Admin and Fleet Portals, including the Driver License Viewer and Driver Profile Page, significantly improving usability and functionality.

PERSONAL PROJECTS

Mrial - Remote Desktop Application (github.com/mahitmehta/mrial)

- Developed a highly-performant remote desktop application with a **custom UDP-based protocol**, **FEC**, x264 video compression, and opus audio compression in **Rust** for **arm64 and x86_64 linux** VMs.
- Built a custom **WebRTC, MacOS, Linux player** using Rust, Slint, and FFmpeg for connecting to the remote desktop service

Founder & Developer **Genesis** (gradebook.mahitm.com)

Nov 2021 - Jun 2024

- Developed an educational app serving **2,400+ students** across two school districts, delivering **200,000+ notifications** and facilitating **140,000+ user sessions** in 2023 through direct integration with district grade management systems.
- Achieved widespread adoption, with **one-third** of South Brunswick High School **students** actively using the app in 2024 to access live GPA calculations, schedules, grades, and account information.

SKILLS

Proficient in: Python, Rust, React, UNIX/Bash, Cloud Service Providers, MongoDB, Git, Node.js, Docker, Redis, Java

Familiar with: C, SQL, VisionOS, TensorFlow, CNNs

EDUCATION

Purdue University - B.S. in Computer Science

May 2027

Extracurriculars: Purdue **Data Mine**, Purdue **Hackers**, and **Project Manager** at **Google Developer Group** Purdue Chapter