

Mahit Mehta

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PROFESSIONAL EXPERIENCE

Bloomberg L.P. - MSE Operability Solutions Team

Jun 2024 - Aug 2024

Software Engineering Intern

This year, the MSE Operability Solutions team decided to deprecate QC. This Python library ensured that filesystem modules, network modules, etc. were functioning correctly before returning a server to a client after a restart. My project required me to rearchitect the new QC library, port/rewrite checks from the legacy library, add types to the new QC lib, and test the new version on RHEL, Solaris, AIX, and Windows dev machines. Additionally, I built a Golang API and React frontend to trigger QC checks manually and occasionally omit checks from running (persisted using PostgreSQL).

Bloomberg L.P. - MSE Operability Solutions Team

Jun 2023 - Aug 2023

Software Engineering Intern

I Developed an internal React web application to configure which QC checks should run on Bloomberg's 70,000+ servers to prevent inevitable failures. For example, occasionally after OS upgrades, certain checks are guaranteed to fail and prevent servers from being returned to clients. With access to this UI, server operators could easily exclude checks ahead of time, increasing server availability. I deployed the application in an internal Kubernetes environment and used React, Vite, Docker, WSL, and Flask (Python).

Haul (haulwith.us)

Jun 2021 - Sep 2021 (Remote)

Fullstack JavaScript Developer Intern

I led the ELD (Electronic Logging Device) Integration project in the admin portal to actively show updates of Haul's fleet of 7000+ CDL drivers' locations and events graphically in real-time. Integrated ELD events with Google Maps to show a real-time map of the drivers' journeys in the admin portal. Used Redis Bull Queue in Nest.js to query live Haul driver events periodically from ELD providers, and used MongoDB to persist the data. Built and improved Functional React Components for the Haul Admin Portal and Fleet Portal including the Drivers License Viewer and Driver Profile Page

VOLUNTEERING

Code 4 Tomorrow

Mar 2022 - Jul 2024 (Remote)

Website Project Lead

Led the development of C4T's new website using Next.js, enhancing access to advanced programming courses for thousands of learners across 98 countries, including Kazakhstan, Kenya, Malaysia, and India. Implemented Incremental Static Regeneration (ISR) to reduce page update times to approximately one second. Configured Redis caching to expedite website rebuilds, decreasing the build time for over 700 pages from 7 minutes to under 2 minutes. Integrated Contentful's Headless CMS and GraphQL API, enabling seamless updates to course information, volunteer opportunities, and FAQs without requiring code modifications.

Genesis (gradebook.mahitm.com)

Nov 2021 - Jun 2024

Founder & Developer

Developed and managed an app that served over 2,400 students across two school districts, delivering more than 200,000 notifications and facilitating over 140,000 user sessions in 2023. The app provides grade notifications, live GPA calculations, student schedules, and account details by directly integrating with the school's grade management website. 1 in 3 students at South Brunswick High School actively used it in 2024.

EDUCATION

Purdue University - B.S. in Computer Science

Aug 2024 - May 2028 (Expected Graduation)

Relevant Coursework: Multivariate Calculus, OOP Programming, Computer Science Tools

South Brunswick High School

Sep 2020 - Jun 2024

Relevant Coursework: | Unity VR and 3D Game Development | Mobile App Development | Data Structures |

Multivariable Calculus (Calc III) | Calculus BC (Calc I & II) | Linear Algebra | Organic Chemistry |

Highlights: 4.3 GPA | 5 on AP Calculus BC, AP Micro, AP Chem, AP CSA | 1st at FBLA SLC Mobile App Development |