

# Mahit Mehta

+1 732-822-0795 | [contact@mahitm.com](mailto:contact@mahitm.com) | [github.com/mahitmehta](https://github.com/mahitmehta) | [mahitm.com](https://mahitm.com) | [linkedin.com/in/mahitm](https://linkedin.com/in/mahitm) | NJ, USA

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## PROFESSIONAL EXPERIENCE

### Bloomberg L.P. - MSE Operability Solutions Team

Jun 2024 - Aug 2024

#### Software Engineering Intern

Rearchitected the **new QC library**, ported/rewrote checks from the legacy library, **added types** to the new QC lib, and **tested** 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, when needed, and occasionally **omit checks** from running (persisted using PostgreSQL). This Python library **verifies the state of servers**, for example, their timezone, disk space, etc. and meets standards. Furthermore, it ensures expected services are running, and if not, logs them to Bloomberg's internal log monitoring service. The development of this refreshed library was **critical for future maintainability** and **increased uptime of Bloomberg machines**.

### Bloomberg L.P. - MSE Operability Solutions Team

Jun 2023 - Aug 2023

#### Software Engineering Intern

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

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

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## 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](https://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.

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## EDUCATION

### Purdue University - B.S. in Computer Science

Aug 2024 - May 2027 (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 |