

# MAHIT MEHTA

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## EDUCATION

### Purdue University

West Lafayette, IN

Bachelors of Science, Computer Science Honors

08/2024 - 05/2027

- 3.9/4.0 GPA
- **Project Manager** at Google Developers Group (Purdue Chapter), Purdue Hackers, VIP Data Mine

## PROFESSIONAL EXPERIENCE

### Bloomberg

Dayton, NJ

Software Engineer Intern

06/2024 - 08/2024

- Rearchitected Bloomberg's Quality Control (QC) library, migrating and refactoring legacy checks into a **modernized Python framework**
- The rewritten 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)
- The improved QC framework significantly **enhanced maintainability, reliability, and uptime** for Bloomberg's server infrastructure

### Bloomberg

Dayton, NJ

Software Engineer Intern

06/2023 - 08/2023

- Developed a Flask 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
- Received **tremendous positive feedback** from Server Operators after presenting my work at the end of my internship
- Attended Bloomberg's internal Puzzle Day event, volunteering events (BOB), and a multitude of networking events in NYC

### Haul by Fleetworthy

Remote

Full Stack JavaScript Developer Intern

06/2021 - 09/2021

- Led the integration of Electronic Logging Device (ELD) data into Haul's admin portal, providing real-time graphical updates of Haul's **7,000+** 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.
- 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 Platform

11/2024 - Present

- 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

### Headshots LoRA

05/2025 - 06/2025

- Trained a LoRA on self-curated batch of high quality headshots on the base SDXL 1.0 model
- Deployed for **low-latency inference** on Modal with PyTorch compilation optimizations

## TECHNICAL SKILLS

- **Proficient:** Python, Rust, Redis, React, Cloud Providers (AWS & GCP), UNIX, Git, Java and MongoDB
- **Familiar With:** LoRA, PyTorch, HuggingFace, VisionOS, and C