

ARUSH MEHROTRA

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Education

University of Pennsylvania (School of Engineering & Applied Science)

Philadelphia, PA

GPA: 3.99/4.00 | BSE Computer Science | MSE Computer Science | Dean's List

August 2021 – May 2025

Technical Skills

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Architecture, Big Data Analytics, Database & Information Systems, Discrete Mathematics, Statistics, Linear Algebra

Languages: Java, Python (Pandas, NumPy, Scikit-learn, Pytorch), Go, C, C++, HTML/CSS, JavaScript, TypeScript, SQL, Haskell, OCaml, SystemVerilog

Frameworks: React, Express, Node, Angular, Svelte, Jest

Software Tools: Git, Docker, Apache Spark, Amazon RDS, Azure, AWS, Selenium, Jenkins

Experience

Viam Robotics

New York City, NY

Software Engineering Intern | Data & ML Team

May 2024 – Present

- Developed new paradigm for data collection on edge devices, allowing inference outputs from machine learning models to be associated with images at the time of capture using **Go**, **Svelte**, and **Python**
- Led cloud data migration of **70 million** customer files from **Amazon S3** to **Azure Blob Storage**

True Ventures

San Francisco, CA

True Ventures Fellow

June 2023 – Aug 2023

- Actively engaged with the True Ventures investment team to understand evaluation metrics and deal flow
- Conducted market research on trends within the AI industry to present to firm partners and investors

Fletch AI

San Francisco, CA

Software Engineering Intern

June 2023 – Aug 2023

- Developed a robust testing framework using **Jest**, resulting in improved code quality and faster development cycles
- Enhanced UX for **100+** trial clients via **React** UI components, boosting engagement and click-through rates
- Created and fine-tuned API endpoints in **Go**, facilitating swift data retrieval and updates

Fidelity Investments

Durham, NC

Software Engineering Intern

June 2022 – August 2022

- Built **CI/CD** pipeline using **Jenkins** & **Docker** supporting end-to-end test automation for **250+** DevOps engineers
- Wrote automation scripts in **Selenium** using **Java** and the **Cucumber** framework
- Designed and built a dashboard to enable capture of free format log information to provide reporting features
- Utilized **PostgreSQL**, **Node.js**, **Express.js** & **Angular/Angular Material** to develop the dashboard

UPenn CIS 1200 (Programming Languages & Techniques)

Philadelphia, PA

Teaching Assistant

August 2022 – Present

- Mentored students in **OCaml** & **Java** programming assignments through active leadership in small-group (**15**) recitation sessions and weekly office hours
- Led midterm and final exam review sessions with **150+** students in attendance

Projects

AirBnB Price Prediction Model

<https://github.com/arush-mehrotra/AirBnB-Price-Prediction-Model>

- Integrated, aggregated, cleaned, and merged multiple datasets to enable holistic analysis of pricing factors
- Utilized **Seaborn**, **Matplotlib**, **Folium** for data visualization
- Implemented ML models including **PCA**, **Gradient Boosting**, **Random Forest Regression**, **Neural Networks**

Penn OS

- Built a single-core operating system with a FAT-based **filesystem**, **kernel**, and **scheduler**, ensuring proper process management and system stability
- Implemented multiple built-in **UNIX** commands accessible from the shell, enabling user interaction with the filesystem
- Supported signal handling and synchronous child waiting using **concurrent threads**