🤳 949-910-6259 🛛 arushm@seas.upenn.edu 🔚 https://www.linkedin.com/in/arush-mehrotra/

Education

University of Pennsylvania (School of Engineering & Applied Science)

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

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

Software Engineering Intern | Data & ML Team

- 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

True Ventures Fellow

- 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

Software Engineering Intern

- 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

Software Engineering Intern

- 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)

Teaching Assistant

- 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**

June 2023 - Aug 2023

Philadelphia, PA

August 2021 - May 2025

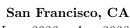
San Francisco, CA

June 2023 - Aug 2023

Philadelphia, PA

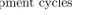
June 2022 - August 2022

August 2022 - Present



New York City, NY

May 2024 - Present



Durham, NC

Arush Mehrotra