

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 | Dean's List

August 2021 – May 2025

Technical Skills

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

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

Frameworks: React, Express, Node, Angular, Jest

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

Experience

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

Orange County Justice Project

Irvine, CA

Founder

June 2020 – August 2021

- Founded a community organization spanning 8 high schools & 50+ members aimed at advocating for criminal justice reform in Southern California
- Organized fundraisers raising thousands of dollars including a \$2000 grant from Chapman University
- Featured in LA Times (<https://tinyurl.com/ocjplatimes>), Orange County Register (<https://tinyurl.com/ocjpocregister>)
- Recognized as a Generation Z Superstar by Orange Coast Magazine (<https://tinyurl.com/arushocmagazine>)

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 both unsupervised and supervised **Machine Learning** models including **PCA**, **Gradient Boosting Regression**, **Random Forest Regression**, **Neural Networks**

CommonCents Website

<https://github.com/PennSpark/fa21-red-commoncents>

- Created a gamified edtech platform for student personal finance in team of four developers at Penn Spark
- Drove application development till deployment, with **2000+** monthly visits across **8** campuses and **1600** students
- Developed the website using **React**, **JavaScript** & **HTML/CSS**
- Utilized **MongoDB**, **Node.js** & **Express.js** for backend development