

# Arvind Majumder

Greater NYC Area | [majumderarvind@gmail.com](mailto:majumderarvind@gmail.com) | [linkedin.com/in/arvindmajumder](https://www.linkedin.com/in/arvindmajumder) | [github.com/Prainex](https://github.com/Prainex) | [arvindkm.com](https://arvindkm.com)

## EDUCATION

Queens College, City University of New York  
Bachelor of Science in Computer Science

Expected Graduation: May 2025

**Relevant Coursework:** Data Structures, Algorithms, Software Engineering, Database Systems, Deep Learning, Advanced Python Programming

## SKILLS

**Languages:** Java · Python · SQL · JavaScript · C · C++ · Lua · Assembly Language · HTML & CSS

**Libraries and Frameworks:** Langchain · Pandas · Javax · Matplot · PyQt5 · React · Node.js · Unix · TypeScript

**Technologies:** AWS · GCP · Vercel · Firebase · Cloudflare · Git · Eclipse · IntelliJ · PyCharm · CLion · VSCode · MySQL

## PROFESSIONAL EXPERIENCE

### Headstarter AI

June 2024 – September 2024

Software Engineering Fellow

Virtual

- Built 3+ full-stack projects using **JavaScript** with AI chatbot, NoSQL Backend, and Cloud hosting
- Developed and learned **Cloudflare**, **Vercel**, **React**, **NodeJS** + best practices for design and deployment
- Implemented methodologies such as **CI/CD**, **agile** development, **DevOps**, and APIs

### CUNY Building Performance Lab

March 2024 – April 2024

Software Engineering Intern

New York, NY

- Developed an interactive interface using **Python** to optimize extraction and visualization of Air Handling Units system data
- Generated graphical representations of cooling and heating data using Pandas and Matplotlib
- Improved data analysis efficiency by **10%** from reducing the need for excel data handling techniques

## PROJECTS

**VALORANT Scrim Data Tracker** | Personal Project (~20 hours) | [GitHub](#) | [Site](#)

- Used **React** to designed a VALORANT Scrim Data Tracker to track first engagements of individual players on maps. Implemented map and agent changeability functions.

**Personal Trainer AI** | Team Project (~10 hours) | [Github](#) | [Site](#)

- Used **JavaScript** to create a chatbot that designs personalized fitness regimens based on user input. Integrated Gemini AI to analyze questionnaire responses and generate tailored fitness plans. Constructed a rate limiter to optimize API calls and prevent spamming. Configured the website in React

**Credit Card Rewards Converter** | Personal Project (~4 hours) | [GitHub](#) | [Certificate](#)

- Used **Java** to complete a simulated engineering ticket system for credit card rewards conversion at JPMorgan Chase & Co. Developed new classes to handle reward conversions and implemented unit tests to maintain accuracy. Eliminated edge cases in rewards conversions, increasing reliability of program.

**Excel File Reader** | Internship Project (~65 hours) | [GitHub](#)

- Used **Python** to create an interactive data analysis tool for the CUNY Building Performance Lab. Integrated pandas and matplotlib to parse and visualize data points. Employed PyQt5 to deploy a graphical interface for data interaction.

## ACTIVITIES & LEADERSHIP

### Unix Essential Training

September 2024

[Certificate](#)

Virtual

- Obtained certification in Unix Essential Training, gaining proficiency in file and directory management using Unix commands

### Code Resolve – Coding Club QC

September 2024 – Present

Junior President

New York, NY

- Develop coding projects and ideas to foster member engagement in technical workshops
- Coordinate with the president to plan and execute workshops, community events and networking opportunities

### Math 143 – Calculus-Infinite Series

January 2024 – May 2024

Class Tutor

New York, NY

- Hosted weekly homework review and pre-exam review sessions via Discord for students
- Enhanced students' understanding of integration, trigonometric substitutions, series and Taylor polynomials