

## Education

**Northeastern University**, Boston, MA

Sep 2019 - Present

- **Degree:** BSc in Computer Science
- **Academics:** GPA: 3.6/4.0 | Dean's Scholarship | Dean's List | QuestBridge Finalist

## Work Experience

**Software Engineer Intern**

Aug 2022 - Dec 2022

**Amazon**, New York City, NY

- Architect a big data system that processes terabytes of customer search queries daily, delivering more relevant landing pages and better customer shopping experience
- Implement metrics monitoring, alarms, and dashboards for operational excellence of the system in production
- Write design documentations and collaborate with team members to delight customers

**Software Engineer Intern**

Jun 2022 - Aug 2022

**Capital One**, McLean, VA

- Developed a self-service application to automate clients' workflows, significantly reducing on-call incidents
- Implemented the backend to send notification emails and to interact with MySQL databases
- Communicated with stakeholders to gather feedback; suggested ideas and presented weekly demos
- Wrote extensive documentations to help streamline software development across teams

**Software Developer Co-op**

Jun 2021 - Dec 2021

**Bayer**, West Sacramento, CA (Remote)

- Developed web applications for data analytics and visualization; automated the workflow of scientists
- Improved app speeds by over 200% by parallelizing API requests and data operations
- Implemented CI/CD using GitHub, CodeBuild, Docker, and AWS Fargate with Load Balancers
- Wrote Python ETL scripts to update millions of rows of data in PostgreSQL databases (Amazon RDS)
- Collaborated with data engineers on managing data and building data pipelines

**Teaching Assistant CS 2810**

Jan 2021 - May 2021

**Khoury College of Computer Sciences**, Boston, MA

- Held office hours for a course about Python, linear algebra, machine learning, and statistics
- Assessed 300+ students and provided feedback on weekly assignments and exams
- Collaborated with professor and TAs to provide academic support; responded daily to Piazza questions

## Skills

**Languages:** Python, Java, SQL, JavaScript, TypeScript, HTML, CSS

**Technologies:** Git, Linux, Flask, Plotly Dash, Lit, React, Amazon Web Services, Docker, Jira

## Projects

**Discord Bots** (Personal) - Python, TypeScript, SQLite

- Built bots to help manage Discord communities (100,000+ members)
- Implemented "Chat Roulette" so that members can join random, fun conversations
- Bots can monitor text channels and automatically respond to messages or inappropriate spam

**CoveyTown** (Group) - TypeScript, React, Twilio Video

- Virtual space where users can have simultaneous video calls, allowing participants to drift between different conversations
- Extended the app to implement objects that can be interacted with or moved around to play games like Chess or Tag

**DetectiveASL** (Group) - OpenCV, Keras, Scikit-learn, Pandas, Matplotlib

- Classify images of American Sign Language utilizing Convolutional NN, Random Forest, and Adaboost
- Designed ConvNet using a max pooling and DropOut layer to achieve 99% testing accuracy and 0.99 F1-score