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Ethan Jiang

Legal name: Yi Jiang | Software Engineer

Education

Northeastern University, Boston, MA   **Sep 2019 - May 2023**

- **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

- Develop a big data system that processes terabytes of customer search queries, enabling more relevant landing pages and better customer shopping experience across 20+ countries/marketplaces
- Implement metrics monitoring, alarms, and dashboards for operational excellence of the system in production
- Present demos, write comprehensive documentations, and incorporate feedback from team members

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 backend APIs that send notification emails and interact with a MySQL database
- 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 with max pooling and a DropOut layer to achieve 99% testing accuracy and 0.99 F1-score