Yi Jiang

Pronounced "Yee" | Available: May - Dec 2022

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Education

Northeastern University, Boston, MA   **Sep 2019 - Present**
Khoury College of Computer Sciences

- **Degree:** Candidate for BSc in Computer Science
- **Honors:** GPA: 3.6/4.0 | Dean's Scholarship | Dean's List
- **Relevant Courses:** Algorithms & Data | Database Design | Object-Oriented Design | Computer Systems
  Foundations of Data Science | Mathematics of Data Models | Artificial Intelligence
  Machine Learning and Data Mining 1 | Foundations of Cybersecurity

Skills

Languages: Python, Java, SQL, HTML, CSS, JavaScript
Tech & Tools: Git, Linux/Ubuntu, Plotly Dash, Jupyter Notebook, AWS, Docker, Jira

Work Experience

Applications Developer Co-op   **Jun 2021 - Dec 2021**
Bayer, West Sacramento, CA (Remote)

- Build end-user data visualization tools and analytics applications for researchers and scientists
- Collaborate with data engineers on managing data and building data pipelines
- Write ETL scripts to update and integrate data in PostgreSQL databases (Amazon RDS)

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, and statistics
- Assessed students and provided feedback on assignments and exams
- Collaborated with professor and TAs to provide academic support

Resident Assistant Housing and Residential Life   **Aug 2020 - Present**
Northeastern University, Boston, MA

- Serve as a leader, role model, peer counselor, and advocate for student residents
- Collaborate with a team to develop an environment conducive to social belonging and personal growth
- Uphold community health and safety standards, especially during a pandemic

Projects

ThanosBot (Personal) **-** Python, SQLite

- Built a Discord bot to help manage and moderate a large server of 100,000+ members
- Utilized SQLite database to store and retrieve user information

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

- Utilized Convolutional NN, Random Forest, and Adaboost to classify images of American Sign Language gestures
- Designed Convolutional NN architecture with convolutional layers each followed by a max pooling layer
- Applied a DropOut layer to prevent overfitting, and achieved 99% testing accuracy and F1-score of 0.99

DataBaste (Group) **-** Java, Python, MySQL

- Built a recipe search application allowing for customized culinary exploration
- Scraped data from recipe websites and designed data tables using MySQL database
- Developed back-end API using JDBC and integrated it with front-end Java Swing GUI

FakeNewsDetector (Group) - NumPy, Pandas, Scikit-learn, SciPy, Plotly Express, Seaborn

- Utilized k-NN, Multinomial NB, and Decision Tree supervised learning to classify fake news and real news
- Optimized hyperparameters using Gridsearch and achieved cross-validation mean accuracy of 93%
- Analyzed and visualized characteristics of fake news and real news articles' attributes