

Ziyuan Jiang

ziyuanjiang17@gmail.com | (929) 471-9262 | linkedin.com/in/ziyuanjiang17

EDUCATION

Columbia University
Master of Science (MS) in Computer Science; GPA: 3.9/4.0

New York, NY
December 2022

Tsinghua University
Bachelor of Engineering (BEng) in Computer Engineering

Beijing, China
June 2021

WORK EXPERIENCE

Flexport

Software Engineer

Chicago, IL

April 2023 – Current

- Engineered a system from computing complex shipment costs using various APIs, transmitted data via **Kinesis**, and analyzed results in **Snowflake**; enhanced visibility using logging and **Datadog** metrics
- Automated exception syncing with a **gRPC** client, integrating multiple services, reducing exception filing time by 80%, and enabling one-click filing for 10+ shipments in **Java Spring**, significantly boosting efficiency
- Orchestrated essential live data support for a new product through **AWS ECS**; executed serverless scheduled jobs to asynchronously ingest and process a daily influx of 10M+ records from OpenSearch

Hippo Harvest Inc.

Software Engineer Intern

San Francisco, CA

May 2022 – August 2022

- Launched an automatic machine learning pipeline in **Python** to infer seedling numbers by detecting plants given plant images; managed plant data on **Metabase** that involved database types such as MySQL and MongoDB
- Maintained the functionalities of a plant microclimate website built on **Java** following MVC architecture that visualized different environment parameters on a module level, such as pulling data from databases
- Trained and deployed the model on **MLflow**, **Airflow** via **Docker**, **Kubernetes** and **GCP** to continuously yield seedling counts for downstream tasks and obtained 95%+ accuracy

University of California, Los Angeles

Machine Learning Engineer Intern (Advised by Prof. Jae Hoon Sul, UCLA)

Los Angeles, CA

June 2020 – July 2021

- Built a self-adaptable model to classify if a person has a higher risk of having atopic dermatitis; designed ML pipeline in **Python** including feature selection integrated by RFE, Chi-squared test and other tools, and models such as XGBoost, and SVM; improved the accuracy from 60% to 80% compared to previous work

PROJECTS

Collaborative Coding Application (Ruby on Rails, JavaScript, Cucumber) September 2022 – December 2022

- Designed a **Ruby on Rails** application on MVC architecture; allowed users to manage cards (collection of coding problems) and groups, and built a platform for them to track and discuss the coding progress
- Integrated the app with **PostgreSQL** for data management, overcoming challenges in data migration and indexing

Interactive Online Learning Website (HTML/CSS, JavaScript, Flask)

March 2022 – May 2022

- Implemented a sudoku learning website that taught basic background and strategies of sudoku; developed the website using Agile methodology; provided quizzes and feedback to help with the learning experience
- Used **HTML/CSS** and **JavaScript** to build frontend, which incorporated images, videos, and carousels
- Achieved real-time personalized learning data storage in the server by Python (**Flask**); allowed users to save, continue, and review their learning process; provided interactive sudoku puzzles written in JavaScript

Audio-Based Social Media Application (React Native, Python, AWS)

October 2021 – December 2021

- Designed frontend of mobile application using **React Native**, which allowed users to search/answer questions by recording their voices; connected to backend and developed several **REST APIs**
- Stored user data in Amazon RDS; deployed machine learning models like BERT and KNN-based search engine on AWS SageMaker for question query and user recommendations

TECHNICAL SKILLS

Languages: Python, C/C++, Java, Kotlin, HTML/CSS, JavaScript, SQL, Ruby

Databases: MySQL, DynamoDB, MongoDB, RDS, PostgreSQL

Frameworks: Django, Spring, React, Next.js, Hadoop, Kafka, Spark, Docker, Kubernetes

Cloud Service: AWS, Azure, GCP