

Mingqian Sun

Jersey City, NJ | ms12492@nyu.edu | (332) 248-3975 | <https://daniels511.github.io>

EDUCATION

New York University

Sept 2020 – May 2024

Bachelor of Arts, Computer Science and Mathematics, GPA 3.8

SKILLS

Programming Languages:	Java, SQL, Python, JavaScript(Node.js), Ruby, C++, Kotlin
Frontend and Mobile:	React.js, Android Studio, React Bootstrap, Ant Design, HTML, CSS
Backend Technologies:	Express.js, Spring, Gradle, Kafka, JUnit, Mockito, LaunchDarkly, Elastic
Data Related:	Snowflake, MongoDB, Neo4j, DBT, PostgreSQL, S3, DynamoDB
Others:	Git, Jira, CloudBees, Qlik, Quicksight, Jenkins, Airflow, Docker, Kubernetes

WORK EXPERIENCE

SailPoint

Austin, TX (Remote)

Software Engineer Intern, Backend API

Sept 2022 – Aug 2023

- Maintained and enhanced the recommendation API in IdentityAI with Spring and Springboot
- Mentored two interns migrating my last summer's visualizations to Qlik and expanding to additional services.
- Configured Checkstyle linting and Jacoco test coverage report and wrote unit tests with JUnit and Mockito
- Conducted manual tests by deploying changes through Jenkins jobs and checking performance on Elastic
- Implemented Kafka-event-based caches that reduced times of resource-consuming queries by 30%
- Optimized Identity Outlier response time by 10% by using cached S3 data instead of full Postgres queries

Software Engineer Intern, Data Engineering

May 2022 – Sept 2022

- Created visualizations to analyze the effectiveness of IdentityAI's access request recommendations
- Constructed models in Snowflake with Data Build Tool(DBT) and created AWS QuickSight dashboards
- Integrated jobs into Airflow DAG and communicated with DevOps to deploy the project into production
- Visualization drove PMs to connect with >10 active users and aided ML team in 10% algorithm optimization.

DJI

Shenzhen, China

Software Engineer Intern

July 2019 – Aug 2019

- Built an automated robot car that can find efficient paths according to certain rules with groupmates
- Constructed a communication system between distributed nodes with Robot Operating System(ROS)
- Implemented algorithms of the robot's motion in C++, which reduced the movement error by 10%
- Planned a pathfinding algorithm that performed better than 75% of interns based on the A* algorithm

PROJECTS

Spotify Music Sharing

- Set up a website for Spotify playlists sharing and discussion with 4 teammates following Agile methodology
- Built multiple React components, implemented server with Express, and connected to MongoDB Atlas
- Wrote unit tests with over 80% coverage with mocha and chai and constructed a JWT authentication system
- Containerized with Docker, created a CI/CD workflow with CircleCI, and deployed on Digital Ocean

Robot Finger Prediction

- Implemented supervised learning model to predict positions of fingertips on a robot hand with RGBD images
- Computed dataset with lazy loading, used MSELoss for training, and optimized resnet50 as the base model
- Achieved 99.5% localization accuracy and ranked top 15% with performance on Kaggle competition.

Daily Share

- Developed an Android app for users to share images and take personal notes in Java and Kotlin
- Utilized Firebase to create an authentication system and store users' identities, notes, and images