

# Mingqian Sun

New York, NY | [ms12492@nyu.edu](mailto:ms12492@nyu.edu) | (332) 248-3975 | <https://github.com/DanielS511>

## Education

### New York University

Sept 2020 – May 2024

### Bachelor of Arts, Computer Science and Mathematics

GPA 3.86

- **Related Courses:** Data Structures, Basic Algorithm, Agile Software Engineering, Data Management and Analysis, Computer System Organization

## Work Experience

### SailPoint

Remote

Software Engineer Intern

May 2022 – Present

- Visualized the effectiveness of company's AI access request recommendations
- Ingested data from AWS s3 into Snowflake database and built raw models with Data Build Tool(DBT)
- Analyzed raw models and built models that join information from raw models and multiple existed models
- Created an AWS QuickSight dashboard that contains multiple charts visualizing the recommendation data
- Added raw data ingestion and DBT model materialization into Airflow Directed Acyclic Graph(DAG)

### DJI

Shenzhen, China

Software Engineer Intern

July 2019 – Aug 2019

- Built an automated robot car that can find efficient paths according to certain rules in a group
- Constructed 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%
- Designed a path planning algorithm that performed better than 75% of interns based on A\* algorithm

## Projects

### Spotify Music Sharing

Sept 2021 – Feb 2022

<https://github.com/DanielS511/project-setup-wschowa-uniform?organization=DanielS511&organization=DanielS511>

- Developed a website with 4 teammates following agile methodology which allows users to discuss their Spotify playlists
- Built multiple React components and designed user interface with React Bootstrap and CSS
- Implemented REST API with Express.js and connected it to MongoDB Atlas database
- Constructed a JavaScript Web Token authentication system
- Wrote unit tests and created a continuous integration workflow with CircleCI
- Deployed the project to a Docker container and launched a Digital Ocean Droplet with the container

### Daily Share

May 2021 – Sept 2021

<https://github.com/DanielS511/daily-share>

- Used Java and Kotlin to develop an Android app that allowed users to share images with descriptions, track COVID-19 status, take personal notes, and look up the weather
- Utilized Firebase to create an authentication system and store users' identities, posts, and images
- Got Covid-19 data with Retrofit from the Covid Tracking Program API
- Saved users' personal notes locally and get weather info from Open Weather Map API

## Skills

### Programing Languages:

Java, JavaScript, Python, C++, Kotlin, Golang, C, SQL

### Markup Languages:

HTML, CSS

### Technologies & Tools:

React.js, Node.js, Express.js, MongoDB, Snowflake, Airflow, DBT, PostgreSQL, Android Studio, Docker, Git, Firebase, Digital Ocean

### Languages:

Mandarin (fluent), English (fluent)