Mingqian Sun

New York, NY 10013 | 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, Computer System Organization, Agile Software Engineering, Basic Algorithm, Data Management and Analysis, Theory of Probability

Work Experience

DJI	Shenzhen, China
Software Engineering 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 – Present

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 multiple routes of the back-end server with Express.js

• Designed a MongoDB database with MongoDB Atlas and performed CRUD operations using Mongoose

• 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

Flappy Bird	Mar 2021 – Apr 2021

https://github.com/DanielS511/flappy-bird

• Built a web clone of the Flappy Bird game in HTML, CSS, and JavaScript

• Deployed the game to a website with Fleek

Skills

Programing Languages:	Java, JavaScript, Python, C++, Kotlin, C, SQL
Markup Languages:	HTML, CSS
Technologies & Tools:	React.js, Node.js, Express.js, MongoDB, PostgreSQL, Android Studio, Docker, Git, Firebase, MySQL, Digital Ocean, Robot Operating System
Languages:	Mandarin (fluent), English (fluent)