

JIA MING (JIMMY) MA

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<https://www.jiamingma.me>

EDUCATION

City College of New York (Grove School of Engineering)

BS Computer Science *GPA: 3.84* (Summa Cum Laude, Dean's List)

New York, NY

Sep 2017 - Dec 2021

TECHNICAL SKILLS

Languages:	JavaScript/HTML/CSS, Python, TypeScript, Java, C++, NoSQL, SQL
Frameworks and Libraries:	React, Node.js, Express.js, Jest, MongoDB, PostgreSQL, Material UI, Redux
Tools:	GitHub, Docker, AWS ECS, CI/CD, Slack, Heroku, Cloudflare, Figma, Postman

PROJECTS

Snackies

<https://snackies.xyz>

- Designed a snack focused e-commerce website which has a rich user experience, mobile-friendly responsive UI and fully functional back-end compatibility
- Built the UI using functional components in React, implemented state management using Redux, and styled using Material UI
- Integrated Stripe API to securely verify payment data, and accept payments upon customer check out
- Implemented the login authentication using JWT stored as cookie along with Google OAuth login
- Stored user and item data in MongoDB cluster via the Mongoose ODM, and created REST API with Express routing all in Node.js

Pathfinding Visualizer

<https://www.jiamingma.me/Pathfinding-Visualization/>

- Implemented an interactive website that visualizes and teaches the behaviors of various pathfinding algorithms for fellow students
- Developed locally with Docker containers using bind mounts and by building images with a Dockerfile
- Built a CI/CD pipeline with GitHub Action to run Jest tests upon any push/pull-request and will automatically deploy website and push new image to DockerHub on success

Smallify

<https://url-shortener-fun.herokuapp.com>

- Mentored a team of 2 people to create a link shortener app, which provided users with a permanent link to their destination URL in a matter of a few milliseconds
- Integrated a bijective algorithm to generate unique shortened links for every link without collision

MTA Tracker

<https://simplemta.xyz>

- Modernized the NYC transportation system for 5+ million New Yorkers by providing a website in which people can receive information about the 472 train stations, and their train arrival times
- Designed an extensive REST API using Express.js, and managed the database using PostgreSQL in Node.js
- Collaborated in a team of 3 using Scrum (Agile) with constant stand ups, code reviews and feature updates

SUPPORTING EXPERIENCE

CUNY Tech Prep

Software Developer Fellow

New York, NY

Jun 2020 - Jun 2021

- Instructed by a mentor on the best industry practices for design, implementation and development using MVC, VC with GitHub, and overall software development life cycle
- Collaborated with 10+ people in different groups over the course of the program to brainstorm and develop efficient full-stack web applications such as the MTA Tracker

Business Technology Early College High School

IT Consultant

Queen's Village, NY

Sep 2020 - Dec 2020

- Maintained upkeep of 5 computer labs and 200+ laptops for the reopening of the school during COVID19 to ensure technology availability for returning students
- Communicated and kept up-to-date with the supervisor about the progress and the condition of all the computer labs daily on Slack