Jia Ming (Jimmy) Ma

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EDUCATION

City College of New York (Grove School of Engineering)   New York, NY
BS Computer Science *GPA: 3.85*   Sep 2017 - Dec 2021

PROJECTS

Snackies   https://snackies.xyz

- Designed a demo e-commerce website that sell snacks which has a rich user experience, mobile-friendly responsive UI and fully functional back-end compatibility
- Built the UI using **React Hooks**, implemented state management using **Redux**, and styled using **Material UI**
- Integrated **Stripe's 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
- The algorithms covered are Dijkstra's Algorithm, A* Search, Breath-First Search, Depth-First Search, and Bidirectional Search

Smallify   https://url-shortener-fun.herokuapp.com

- Administered 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**

SUPPORTING EXPERIENCE

CUNY Tech Prep   New York, NY
Software Developer Student   Jun 2020 - Jun 2021

- Learned technologies like React, Node.js, Express.js, and PostgreSQL
- Instructed on the best industry practices for design, implementation and development using MVC, VC with GitHub, etc.

Business Technology Early College High School   Queen's Village, NY
IT Consultant   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

TECHNICAL SKILLS

Languages:	JavaScript/HTML/CSS, Python, Java, C++, NoSQL, SQL
Frameworks and Libraries:	React, Node.js, Express.js, MongoDB, PostgreSQL, Material UI, Redux
Tools:	GitHub, Heroku, Cloudflare, Figma