

Aiden Szeto

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Education

University of California, Los Angeles

Los Angeles, CA

B.S. IN COMPUTER ENGINEERING, GPA: 4.0

Graduating Jun. 2024

- Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Computer Organization
- Activities and Awards: Sacramento Water Works Scholarship (2020-2021), ACM, IEEE

Experience

NomAd | Chief Technical Officer

May. 2020 - Present

NODE.JS, REACT, EXPRESS, MONGODB, PYTHON, AWS

- Earned \$35,000 in investments and garnered listings in 5 cities across the US by creating the company MERN app
- Spearheaded technical product development by leading a team of 6 engineers and 2 designers
- Developed custom listing synchronization to seamlessly import calendar data, improved usability by 30%

ELFIN CubeSat | Software Developer

Oct. 2020 - Present

PYTHON, MYSQL, QT DESIGNER, ZMQ, C

- Architected command parser to interpret commands sent over UART from the payload testbench flight computer
- Lead design of end-to-end satellite communications paradigm by implementing CCSDS standard protocol
- Optimized software housekeeping by creating commander-to-server heartbeat pings via the ZMQ python library

UCLA Micro and Nano Manufacturing Lab | Researcher

Oct. 2020 - Jan. 2021

NODE.JS, REACT, LOOPBACK, MYSQL

- Worked under Professor CJ Kim to develop the Edrop cloud-based design and manufacturing platform
- Automated database model updates for uploaded files, increasing file-sharing efficiency for chip designers
- Improved application security by configuring Access Control Lists for more than 20 Loopback endpoints

Projects

Spotif.ai

MONGODB, EXPRESS, REACT, NODE.JS, PYTHON, RESTFUL APIS

- Utilized Microsoft Cognitive Services API to recommend a Spotify playlist based on a user's detected emotion
- Designed algorithm to create and store correlation data between user happiness and track danceability/energy

QRowd

MONGODB, FLASK, JAVASCRIPT, HTML/CSS, RESTFUL APIS

- Built data visualization feature that parses user data to create contact tracing maps and predict Covid-19 spread
- Implemented Flask routes to connect user QR code scanning with the corresponding location ID database entry

The C++ Command Shell (CPPCS)

C++

- Designed command line text editing interface and shortcuts to reflect the behavior of typical shell programs
- Implemented automated GCC compilation, compilation error detection, and file importing to improve unit testing

Skills

Programming C/C++, Python, JavaScript, TypeScript, Java, SQL, Embedded Systems, Computer Networking

Web Development MongoDB, Express, React, Node.js, Flask, HTML, CSS, REST APIs, Postman

Technologies Git, Linux, AWS, Firebase, Google Cloud Platform, Microsoft Azure, FreeRTOS, ZMQ