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

VHomes | 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

- Developed command parser to usher commands from the satellite payload testbench flight computer to the IDPU
- Centralized 8 refresh functions on the satellite operations planner to improve script scheduling procedure
- 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
Jun. 2020 - Present

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
Aug. 2020

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

Sun-Tracking Solar Panel
May. 2020

Arduino, C (programming language)

- Implemented Arduino to adjust servo motor values based on differences in readings between opposing photoresistors
- Modeled and constructed single-axis tracking stand that can be scaled to real-world solar energy plants

Skills

Programming	Python, C/C++, Java, Javascript, HTML/CSS, SQL, MongoDB, Express, React, Node.js, Flask, REST APIs
Technologies	Git, Linux, AWS, Firebase, Agile, Microsoft Azure, Adobe Creative Cloud, Autodesk Inventor
Entrepreneurial	Startups, Market Analysis, Cohort Retention, Product Development, Product Management