

Aiden Szeto

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Education

University of California, Los Angeles

B.S. IN COMPUTER ENGINEERING, GPA: 4.0

Graduating Jun. 2024

- Object Oriented Programming (CS31), Data Structures and Algorithms (CS32), Operating Systems (CS33)

Experience

NomAd | Chief Technical Officer

May. 2020 - Present

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

- Developed and deployed MERN application on AWS Elastic Beanstalk, earning \$35,000 in pre-seed investments
- Directed technical product development and lead a team of 6 engineers using Agile methodology
- Integrated photo uploading with AWS Lambda and an S3 Bucket, permitting access to over 500 photos

ELFIN CubeSat | Software Developer

Oct. 2020 - Present

PYTHON, ZMQ, QT DESIGNER, FREERTOS, C

- Architected command parser to interpret commands with 99% accuracy sent over UART to the flight computer
- Led design of end-to-end satellite communications paradigm by implementing 3 network protocol layers
- Revamped the server responsible for communications between 5+ satellite applications and their ground counterparts

UCLA Micro and Nano Manufacturing Lab | Researcher

Oct. 2020 - Jan. 2021

NODE.JS, REACT, LOOPBACK, MYSQL

- Presented research findings for the Edrop cloud-based design and manufacturing platform to Professor CJ Kim
- Automated database model updates for uploaded files, increasing file-sharing efficiency for chip designers
- Overhauled 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 facial expressions
- Designed algorithm to create and store correlation data between user happiness and track danceability/energy
- Parsed and analyzed 3 different track metrics from Spotify API to compile happiness indices for user-inputted playlists

The C++ Command Shell (CPPCS)

C++, GCC

- Designed command line text editing interface, including 4 keyboard macros similar to a typical command line program
- Implemented automatic GCC compilation, error detection, and file importing optimized with less than 1 second delay
- Applied the MVC (Model-View-Controller) Model with keyboard input, code generation, and compilation

QRowd

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

- Built data visualization using Mapbox to parse user data to create contact tracing maps and predict Covid-19 spread
- Authored 5 Flask routes to connect user QR code scanning with the corresponding location ID database entry

Skills

Programming C/C++, Python, JavaScript, TypeScript, Java, SQL, x86 Assembly, 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