

Aiden Szeto

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Education

University of California, Los Angeles

B.S. IN COMPUTER ENGINEERING, GPA: 4.0

Graduating Jun. 2024

- Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Digital Logic Design

Skills

Advanced: C/C++, Python, JavaScript, Git, Linux/Unix, AWS, Node.js, React, Express, MongoDB, Firebase, Flask

Proficient: Java, SQL, HTML/CSS, x86 Assembly, TypeScript, Golang, Google Cloud, FreeRTOS, OpenMP, Loopback

Learning: Verilog, Rust, Django, Docker ZeroMQ, Microsoft Azure

Experience

CDK Global | Software Engineer Intern

Jun. 2021 - Sep. 2021

AWS, NODE.JS, REACT, TERRAFORM, ARTILLERY

- Constructed and published serverless vehicle leasing API with AWS Lambda and DynamoDB via Terraform, implemented API into Fortellis marketplace with Apigee proxy
- Automated API performance testing with Artillery to tune average load, latency, and error rates through horizontal scaling
- Improved one-to-one API support on Fortellis Developer Network and Platform, which supports 150M API transactions per year

ELFIN CubeSat | Flight Software Developer

Oct. 2020 - Present

C, PYTHON, ZMQ, FREERTOS

- Developed FreeRTOS task on SmartFusion2 SoC to parse over 10,000 commands sent to flight computer over UART
- Architected end-to-end satellite communications paradigm by implementing frame acceptance protocols on data link layer
- Eliminated 95% of missed science collection passes by revamping data-link level framing to use return-to-zero encoding

NomAd | Co-Founder & Chief Technical Officer

May. 2020 - Present

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

- Earned \$50k+ in non-diluted funding, acquired 15+ listings in 2 countries, and completed UCLA Anderson Venture Accelerator
- Directed product development and lead Agile team of 8 employees to engineer, market, and analyze SaaS solutions
- Automated client and server release deployments on AWS Elastic Beanstalk and Google Firebase via GitHub workflows

UCLA Micro and Nano Manufacturing Lab | Researcher

Oct. 2020 - Jan. 2021

NODE.JS, REACT, LOOPBACK, MYSQL

- Presented development progress 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 by over 50%
- Overhauled application security by configuring Access Control Lists for more than 20 Loopback API endpoints

Projects

The C++ Command Shell (CPPCS)

C++, GCC

- Designed command line interface for C++ unit testing and scripting, with source/header file importing features
- Implemented automatic GCC compilation, error detection, and file importing optimized with less than 1 second delay

Spotif.ai

MONGODB, EXPRESS, REACT, NODE.JS, PYTHON

- Utilized Microsoft Cognitive Services API to recommend a Spotify playlist based on a user's detected facial expressions
- Parsed and analyzed 3 different track metrics from Spotify API to compile happiness indices for user-inputted playlists