

# Aiden Szeto

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## Education

**University of California, Los Angeles**

*Graduating Jun. 2024*

B.S. COMPUTER ENGINEERING, GPA: 3.7

- Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Operating Systems, Computer Networks
- Achievements: Upsilon Pi Epsilon, Eta Kappa Nu, Dean's Honors

## Experience

**Meta | Software Engineer Intern -**

*Jun. 2022 - Sep. 2022*

PYTHON, QT, LINUX, SPLUNK

- Working on the Applied Privacy Technology team in Summer 2022

**NASA | Software Engineer Intern - [nasa.gov/gateway](https://nasa.gov/gateway)**

*Aug. 2021 - Dec. 2021*

PYTHON, QT, LINUX, SPLUNK

- Provided software support for the Artemis Gateway command and data handling team at Johnson Space Center
- Developed UART commanding GUI with PyQt5 to facilitate communication between Modal Propellant Gauging prototype and testing system. Currently being used for tests with Intuitive Machines, LLC.
- Prototyped a live-feed SNMP monitor for the HALO module built with Splunk and presented findings to 50+ team members

**ELFIN CubeSat | Software Lead - [elfin.igpp.ucla.edu](http://elfin.igpp.ucla.edu)**

*Oct. 2020 - Present*

C, PYTHON, QT, ZMQ, FREERTOS

- Led team of 8 software engineers to develop, maintain, and publish software for the 2 most successful CubeSats to date
- Improved science outputs to more than 1.5 papers published per month by leading efforts to implement electronic particle detector collections at 32 sectors per spin
- Prototyped end-to-end communications paradigm for UCLA's next CubeSat with a Python server and SmartFusion2 SoC client

**CDK Global | Software Engineer Intern - [fortellis.io](http://fortellis.io)**

*Jun. 2021 - Sep. 2021*

AWS, NODE.JS, REACT, TERRAFORM

- Improved one-to-one API support on Fortellis Developer Network and Platform, which supports 150M API transactions per year
- Constructed and published serverless vehicle leasing API with AWS Lambda and DynamoDB via Terraform, implemented API into Fortellis marketplace with Apigee proxy

**NomAd | Co-Founder, Chief Technology Officer**

*May. 2020 - Jan. 2022*

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

- Completed UCLA Anderson Venture Accelerator and raised \$50K pre-seed before being acquired by WISH STR Enterprises
- Directed website development using Agile methodologies and lead team of 8 employees to design, engineer, and market product
- Automated client and server deployments on AWS Elastic Beanstalk and Google Firebase via GitHub workflows

## Projects

**PearPy - [pypi.org/project/pearpy](https://pypi.org/project/pearpy)**

PYTHON, PYPI

- Collaborated with teammates across the world in MLH Open Source fellowship to create and publish Python package for parallelization
- Developed test suites and benchmarks that indicated up to 400% runtime improvement when using PearPy - [github.com/MLH-Fellowship/pearpy](https://github.com/MLH-Fellowship/pearpy)

## Skills

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

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

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