

# Aiden Szeto

☎ 916-990-3708 | ✉ aszeto35@gmail.com | 🏠 aidenszeto.me | 📷 aidenszeto | 🌐 aidenszeto

## Education

### University of California, Los Angeles

Graduating Mar. 2024

B.S. COMPUTER ENGINEERING, GPA: 3.7

- Relevant Coursework: Machine Learning, Artificial Intelligence, Deep Learning / Neural Networks, Data Structures and Algorithms, Computer Architecture, Computer Networks, Programming Languages, Operating Systems, Digital Logic Design
- Achievements: Upsilon Pi Epsilon, Eta Kappa Nu, Dean's Honors | Technical breadth concentrations in EE and Tech Management

## Experience

### MongoDB | Software Engineer Intern

Jun. 2022 - Aug. 2023

C++, JAVASCRIPT, LINUX

- Applying distributed systems principles adapted from the RAFT consensus algorithm to database replication protocol
- Creating new node consistency checks for database index keys in C++, impacts 365M+ Atlas and Enterprise users

### NASA | Data Science Intern

Sep. 2022 - May. 2023

PYTHON, GEOPANDAS, TENSORFLOW, KERAS, SCIKIT-LEARN, NLTK, MONGODB

- Designed NLP model to categorize flight-controller service descriptions in real time. Built and evaluated RNNs (LSTM) with various word embeddings (TF-IDF, Word2Vec, GloVe, and Fast Text) and Transformer neural networks (BERT)
- Developed Python service using Geopandas to detect and visualize flight trajectory conflicts against 60,000+ places of interest

### Meta | Software Engineer Intern

Jun. 2022 - Sep. 2022

PYTHON, HACK, MERCURIAL, PRESTO

- Architected workstream in Hack to de-identify user data ingested into Facebook warehouses, achieved over 90% coverage
- Built data pipeline with Python to detect missing annotations for sensitive information among database tables
- Used internal machine learning tools to predict proper data annotations with 80%+ accuracy and remediate privacy breaches

### NASA | Software Engineer Intern

Aug. 2021 - Dec. 2021

PYTHON, QT, LINUX, SPLUNK

- 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 | Undergraduate Researcher

Oct. 2020 - Present

C, PYTHON, ZMQ, FREERTOS, CAN, UART, I2C

- Led team of 8 software engineers to develop, maintain, and publish software for the 2 most successful CubeSats to date
- Improved science outputs to 1.5 papers per month by implementing electronic particle detector collections at 32 sectors per spin
- Prototyped and simulated end-to-end communications paradigm for UCLA's next NASA-funded CubeSat

### CDK Global | Software Engineer Intern

Jun. 2021 - Sep. 2021

AWS, NODE.JS, REACT, TERRAFORM

- Improved API support on Fortellis Developer Network and Platform, impacting over 150M API transactions per year
- Constructed and deployed serverless Node.js API with AWS Lambda and AWS DynamoDB via Terraform

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

May. 2020 - Jan. 2022

AWS, GITHUB, FIREBASE, NODE.JS, REACT, MONGODB

- 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

## Skills

**Languages:** Python, C, C++, JavaScript, Java, Lisp, Haskell, Golang, Prolog, MIPS/x86 assembly, HTML/CSS, SQL

**Tools/Technologies:** Git, Linux, AWS, MongoDB, Google Cloud, React, Node.js, FreeRTOS, Presto, Keras/TensorFlow, PyTorch

**Concentrations:** Machine learning, embedded systems, computer networks, web development, databases, cloud computing