



Maxwell Mohammadi

Software Engineer

PROFILE

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EDUCATION

California Polytechnic State University, San Luis Obispo
Computer Science
(September 2018 - June 2022)
3.6 GPA

OBJECTIVE

Creative individual with excellent communication and relationship-building skills, hoping to build on knowledge Networking, Cryptography, Computer Security, Blockchain, and Decentralized Finance (DeFi).

SKILLS

React/Redux	Python
Flask	MongoDB
Heroku	AWS EC2/S3
JavaScript	SQL
Unix/Linux	NodeJS
Git	Docker

WORK EXPERIENCE

Ernst & Young

Forensic Data Analyst

(June 2021 - August 2021)

- Created forensic investigation reports in Relativity to track fraud disputes for clients.
- Implemented an open-source anomaly detection system for forensic data analysis, which correctly identified cases of fraudulent financial activity.
- Researched and presented the Ethereum and Celo Blockchain protocols to colleagues at EYBlockchain.
- **Key Achievement:** Worked with the Solidity Smart Contract Programming Language, Ethereum Virtual Machine, and Decentralized Finance Protocols to create product research for clients.

Sydereal

Software Engineering Intern

(December 2020 - June 2021)

- Migrated the company from SQLite to a time-series back-end database using InfluxDB to process and store satellite component sensor data, which increased data processing speeds by 20%.
- Designed full-stack project architecture for an anomalous event alert system and data visualization dashboard for Low Earth Orbit satellites.
- **Key Achievement:** Used a neural network-based approach to implement an anomaly detection algorithm for spacecraft telemetry data, saving roughly \$150,000.

Proximai

AI Research Intern

(April 2020 - May 2021)

- Researched and prepared 3 independent advanced technologies to NASA Innovative Advanced Concepts (NIAC): Deep Reinforcement Learning (DRL) spacecraft guidance system, Micro-Organic Spacecraft Shielding, and a DRL simulation environment for Warp Drives that allow faster-than-light travel.
- **Key Achievement:** Contributed to development of Rapid Deployment AI Recommendations (RaDAR), a spatial-temporal data analysis framework which provides GO/NO-GO areas for military aircraft landing during mission anomalies and natural disasters.

Cal Poly Computer Science & Artificial Intelligence

Data Acquisition Developer

(January 2019 - March 2020)

- Contributed to the "Nimbus" voice assistant and chatbot project, which provides the Cal Poly Computer Science department with relevant information about the university.
- **Key Achievement:** Developed site scraping programs to aid the Natural Language Processing data acquisition and data pipeline optimization.

Camp PolyHacks

Sponsorship Organizer

(May 2019 - February 2020)

- Facilitated and organized corporate sponsorships at the 2020 Hackathon, hosting 100+ Cal Poly students at the SLO HotHouse.
- Communicated with recruiters and mentors from tech firms, and raised over \$25,000 for students to create technology, software applications, and businesses.

PROJECTS

Mentive Web App

<https://mentive.org/prototype/>

- Developed a web-based social networking application for tutors in college.
- Software stack: ReactJS, AWS, Python, Django, NodeJS, MongoDB.

Personal Portfolio & Blog

<http://www.maxmohammadi.com/>

- Showcase of school, personal, or work related coding projects as well as my blog.
- Software stack: NextJS, Vercel, Markdown, ReactJS.

DeFile

<https://github.com/MaxMohammadi/DeFile>

- Full-stack decentralized file storage on the Ethereum Blockchain.
- Software stack: IPFS, ReactJS, Truffle, Ganache.

Satellite Visualizer

<https://github.com/MaxMohammadi/SatelliteVisualizaer>

- SpaceX Starlink satellite orbit visualizer.
- Software stack: WebGL, ReactJS, Vercel, TailwindCSS.