

Stephen Giang

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WORK EXPERIENCE

General Atomics Aeronautical Systems Inc

Poway, CA

Avionics Simulation Software Engineer

Jan 2022 - Present

- Created multiple components towards simulating real time events during General Atomics Predator drone flights, such as malfunctions, altimeter sensors, and servo controls.
- Took charge of the implementation of the electrical power system upgrade of the SkyGuardian drones simulation to reduce risk of electrical damage to critical flight systems.

Technology Unlimited Group

San Diego, CA

Software Developer

October 2021 - Jan 2022

- Reconfigured the frontend interface of the data link visualizations between Naval boats and Naval airships.
- Handled version control by converting entire projects from Python 2.0 to Python 3.9 which included many dependency handling and modification of cmake files.

Tramigo Social Media App

San Diego, CA

Full Stack Software Developer

Jan 2021 - July 2022

- Implemented full components of the social media app which included a React Native interface and a Postgresql backend model through Django Python.
- Responsible for laying the foundation of over 55% of the app's functionality and data handling.
- Configured Amazon Web Services S3 Buckets to allow backend model to post and store data within.

LEADERSHIP EXPERIENCE

CrossRoads Tutoring

San Diego, CA

Owner / Private Tutor

Jan 2018 - Present

- Hired and trained three other tutors to take on students alongside myself.
- Maintains a 90% pass rate with all students I tutor.
- Tutors all levels of Mathematics and Computer Science from middle school to University level.

EDUCATION

San Diego State University

San Diego, CA

Applied Mathematics w/ emphasis in Computational Science BS

Graduation Date: May 2021

- GPA: 3.7152
- Received Magna Cum Laude and a Minor in Computer Science
- Coursework Included: Ordinary and Partial Differential Equations, Numerical Matrix Analysis, Complex and Real Analysis, Algebraic Coding Theory, Computer Vision, and Data Structures

SKILLS & INTERESTS

Programming Languages: Java, C/C++, Python, Javascript, HTML5, CSS3, PHP, Matlab, R

Frameworks and Data Models: Django, React, React Native, JQuery, Postgresql, Mysql

Interests: Web Development, Math Intensive Programming Visualization Projects, Teaching