

# Stephen Giang

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## WORK EXPERIENCE

### General Atomics Aeronautical Systems Inc

Poway, CA

*Avionics Simulation Software Engineer*

Jan 2022 - Present

- Developed various components in C and C++ aimed at simulating real-time events during General Atomics Predator drone flights, including malfunctions, altimeter sensors, and servo controls.
- Led the implementation of the electrical power system upgrade for the SkyGuardian drone simulation, mitigating the risk of electrical damage to critical flight systems.
- Established and maintained automated testing protocols in Python for different drone modules and profiles, ensuring consistent and reliable validation of system functionality and performance.

### Technology Unlimited Group

San Diego, CA

*Software Developer*

October 2021 - Jan 2022

- Revamped the frontend interface of data link visualizations for seamless integration between Naval boats and Naval airships.
- Spearheaded version control initiatives by transitioning entire projects from Python 2.0 to Python 3.9, encompassing comprehensive dependency management and modification of cmake files.

### Tramigo Social Media App

San Diego, CA

*Full Stack Software Developer*

Jan 2021 - July 2021

- Executed the development of core components for a social media application, encompassing a React Native interface and a PostgreSQL backend model implemented with Django Python.
- Played a pivotal role in establishing the foundation for over 55% of the application's functionality and data management capabilities.
- Configured Amazon Web Services (AWS) S3 Buckets to optimize backend models for efficient data posting and storage.

## LEADERSHIP EXPERIENCE

### CrossRoads Tutoring

San Diego, CA

*Owner / Private Tutor*

Jan 2018 - Present

- Mentored and trained three individuals to become proficient tutors, enabling them to independently instruct their own students while concurrently managing my own personal tutoring responsibilities.
- Sustains an impressive 90% pass rate among all tutored students, underscoring a steadfast commitment to fostering academic excellence through personalized instruction and targeted support strategies.
- Provides comprehensive tutoring services in Mathematics, Computer Science, and Physics to students ranging from middle school to University level, ensuring proficiency in STEM related subject areas.

## EDUCATION

### San Diego State University

San Diego, CA

*Applied Mathematics w/ emphasis in Computational Science BS*

Jun 2018 - May 2021

- GPA: 3.7152; Magna Cum Laude; 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