Stephen Giang

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WORK EXPERIENCE

General Atomics Aeronautical Systems Inc — **Poway, CA**
Avionics Simulation Software Engineer — *Jan 2022 - April 2024*

- 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.

Tramigo Social Media App — **San Diego, CA**
Full Stack Software Developer — *Jan 2021 - Jun 2022*

- 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.

Technology Unlimited Group — **San Diego, CA**
Software Developer — *Oct 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.

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