Gideon Tong

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Skills (Core Qualifications)

- **Languages:** Java, C/C++, Python, Go, JavaScript (ES6), SQL, Objective-C, Swift, HTML/CSS
- **Frameworks:** React, Node.js, Express.js, Django, Flask, MongoDB, Docker, Google Cloud, AWS
- **Workflow:** Git, GitHub, Continuous Integration/Deployment, Kanban, Unit Testing
- **Platforms:** Unix/Linux, Windows, macOS, iOS, Android, Arduino, Raspberry Pi
- **Schematic Capture/Board Layout:** Altium, Verilog, System Verilog, OrCAD, PSpice (Circuit Simulation)

Education

University of California San Diego Term GPA: 3.7 | Expected Graduation 2022

- Bachelor of Science in Electrical Engineering (emphasis in machine learning and embedded circuits)
- **Coursework:** object-oriented programming, data structures and algorithms, components and circuits, signals and systems, ARM assembly, computer organization
- **Leadership:** Managed 5-member competitions planning team for a technology conference at Association for Computing Machinery, Institute for Electrical and Electronics Engineers

Experience

Incoming Software Engineering Intern at ***J.P. Morgan*** June 2021 – August 2021

Software Engineering Intern at ***Eccalon, LLC*** September 2020 – May 2021

- Led US Department of Defense-related projects for the Army Rangers and Air Force
- Developed backend systems using Python and Flask for processing data that reduced loading times from 8 hours to 350 milliseconds (>99.99% faster)

Co-Founder and Software Engineer at ***Tudrme*** September 2018 – March 2020

- Saved company $35,000 in hosting fees by deploying onsite NodeJS and PostgreSQL stack
- Designed stable frontend and backend React service logic to process 1,000 transactions per second, focusing on reliability and security
- Implemented user profiles, online payment systems and user management systems

Robotics Programming Instructor at ***Sandbox Computers*** June 2018 – September 2018

- Instructed over 400 students in Python, basic circuit design, and Ruby using Raspberry Pi and Arduinos
- Authored internal-use code and instruction materials for 2 classes

Projects | Hackathons: 35

Amy: Chatbot (Link: amyhelps.ml) September 2019 – Present

- AI-powered Discord chatbot with 200 video game and moderation tools
- Over 15,000 site visitors and 75,000 daily active users in 6 countries
- Built with JavaScript, Node.js, MongoDB, Jekyll, Canva and Adobe Creative Cloud

Platypus: Cybersecurity Scanning Utility (Link: getplatypus.ml) February 2020 – Present

- Created JavaScript tool to automatically scan visited websites, checking for 100,000 vulnerabilities
- Achieved 1st Place at Cal Poly San Luis Obispo Hacks with Docker and PostgreSQL deployment
- Continued live deployment after hackathon, reaching a sustained 1,000 active users

Authentic: Fake News Verification Tool (Link: readauthentic.ml) November 2018 – July 2019

- Analyzes news feeds and replaces fake news with same-topic articles from 100 reputable news sites
- Built with C++, JavaScript, HTML, CSS, Jekyll, Canva and Adobe Creative Cloud