

# Gideon Tong

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## Education

*University of California San Diego*

Term GPA: 3.7 | Expected Graduation 2022

- Bachelor of Science in Electrical Engineering (emphasis machine learning and controls)
- **Coursework:** data structures and algorithms, signals and systems, ARM assembly, computer organization
- **Leadership:** managed competitions planning team for a technology conference at Association for Computing Machinery, Institute for Electrical and Electronics Engineers
- Rank 1 at Women in Computing at UCSD's competitive programming competition

## Experience

*Software Engineer Intern at Nvidia*

September 2021 – December 2021

- Created and deployed React frontend for statistics and management of distributed map processor
- Improved performance of Go REST API for map processor, making it fast enough to avoid server timeouts
- Developed tools for comparing RADAR and LiDAR point clouds from autonomous vehicles

*Software Engineer Intern at JP Morgan Chase*

June 2021 – August 2021

- Developed production-quality REST API capable of serving remittance checks to clients
- Created Kafka consumers for envelopes, deploying to Kubernetes cluster
- Updated Spring Boot logging microservices responsible for processing \$1 trillion per day

*Software Engineer Intern at US Air Force*

January 2021 – May 2021

- Created software library for electromagnetic warfare simulator allowing results analysis
- Saved 13,806 man-hours of work in conversion from legacy simulators using this library
- Saved \$225 million by replacing old model library used in testing mission data for 30 countries

*Software Engineer Intern at Eccalon LLC*

September 2020 – December 2020

- Led US Department of Defense-related projects for the US Army Rangers (75<sup>th</sup> Regiment)
- Developed Python (Django) backend that reduced loading times from 8 hours to 350 milliseconds (>99.99%)
- Collaborated with frontend team to create expose new REST microservices that provided real-time data

*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

## Projects

*Amy: Chatbot (Link: [amyhelps.ml](https://amyhelps.ml))*

September 2019 – Present

- AI-powered Discord chatbot in Javascript and Python with 300 video game and moderation tools
- Over 100,000 site visitors and 75,000 daily active users in 6 countries

*Platypus: Cybersecurity Scanning Utility (Link: [getplatypus.ml](https://getplatypus.ml))*

February 2020 – January 2021

- Created JavaScript tool to automatically scan visited websites, checking for 100,000 vulnerabilities
- Achieved 1<sup>st</sup> Place at Cal Poly San Luis Obispo Hacks with Docker and PostgreSQL deployment

## Skills

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