

# Gideon Tong

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GitHub: [/gideontong](https://github.com/gideontong)

## Education

### University of California San Diego

September 2019 — December 2022

- Bachelor of Science in Electrical Engineering (emphasis machine learning and controls), GPA: 3.74
- Coursework: data structures and algorithms, system design, linear control, optimization, machine learning

## Experience

### NVIDIA

#### Software Engineer

September 2021 — Present

- Developed tools for comparing RADAR and LiDAR point clouds from autonomous vehicles for mapping
- Analyzed and evaluated performance of different raytracing algorithms for 3D map creation
- Created and deployed React frontend for statistics and management of distributed map processor
- Improved performance of map processor Go REST API, which brought server timeout rate to 0% and decreased average response time from 220 seconds to 30 milliseconds

### Meta Platforms

#### Technical Program Manager (Contract)

January 2022 — June 2022

- Primary technical escalation point for development of Hack (programming language) and Cinder (Python interpreter)
- Provided mentorship and implemented best practices and processes for code review in C, C++, and OCaml
- Facilitated daily standup, data tracking, and aggregate team reporting
- Led onboarding of new interns, increasing team productivity and streamlining workflow by 50%

### JP Morgan Chase

#### Software Engineer Intern

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

### US Air Force

#### Software Engineer Intern

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 rewriting old model library used in testing mission data for 30 countries

### Eccalon LLC

#### Software Engineer Intern

September 2020 — December 2020

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

## Projects

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

- Built Discord chatbot in JavaScript and Python with over 300 video game AI agents and moderation tools
- Over 100,000 site visitors and 75,000 daily active users in 6 countries managed with MongoDB instance

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

- Created JavaScript tool to automatically scan visited websites, checking for all released CVE vulnerabilities
- Achieved 1st place at Cal Poly San Luis Obispo hackathon with Docker and PostgreSQL deployment

## Skills

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