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 in machine learning and embedded circuits)
- **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

Incoming Software Engineering Intern at *NVIDIA*   September 2021

Software Engineering Intern at *JP Morgan Chase*   June 2021 – Present

- Developed production-quality API capable of serving remittance checks to clients
- Designed API to be easily scalable, deploying to Kubernetes cluster

Software Engineering Intern at *US Air Force*   January 2021 – May 2021

- Created software library for electromagnetic warfare simulator A2PATS, saving a total of 13.806 man-hours
- Saved $225 million by replacing old model library used in testing mission data for 30 countries

Software Engineering Intern at *Eccalon LLC*   September 2020 – December 2020

- Led US Department of Defense-related projects for the US Army Rangers (75th Regiment)
- Developed Python (Flask) backend that reduced loading times from 8 hours to 350 milliseconds (>99.99%)

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

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

- Instructed over 400 students in Python, circuit design, and Ruby using Raspberry Pi and Arduinos

Projects

Amy: Chatbot (Link: 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)   February 2020 – January 2021

- 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

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

- Analyzes news feeds and replaces fake news with on-topic articles from 100 reputable news sites
- Javascript-based tool that leveraged IBM Watson to determine the central topic of every article

Skills

- **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, Spring, Kafka
- **Workflow:** Git, GitHub, Continuous Integration/Deployment, Kanban, Unit Testing (Junit)
- **Platforms:** Unix/Linux, Windows, macOS, iOS, Android, Arduino, Raspberry Pi
- **Schematic Capture/Board Layout:** Altium, Verilog, System Verilog, OrCAD, PSpice (Circuit Simulation)