Vincent Lin

vincentlin1617@gmail.com | 407-454-2404 | linkedin.com/in/vincent-lin-uf | github.com/vincent-lin-uf
U.S Citizen | Active Secret Clearance

Education

University of Florida (UF) - Gainesville, FL <div align="right">**Dec 2026**</div>
Bachelor of Science in **Computer Science**, Minor in Electrical Engineering and Mathematics **GPA: 3.7/4.0**
- **Awards:** 1st for Google in ShellHacks, 1st Overall in SwampHacks, 2nd Overall for DTE Designathon
- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Algorithm Abstraction & Design, Software Engineering, Machine Learning, Computer Architecture, Databases, Robot Geometry

Skills

Languages: C, C++, Go, Python, JavaScript, TypeScript, Java, Lua, SQL, Bash, MATLAB
Frameworks & Tools: React, Node, Flask, Gin, MongoDB, NumPy, AWS, Git, GCP, Docker, Kubernetes, Linux
Platforms & Hardware: Raspberry Pi, Jetson Nano, Arduino, NVIDIA CUDA, Firebase, Altium Designer

Experience

Incoming Software Engineering Intern - Zeta Global **Jun. 2025 - Present**

Student Instructor - Stanford University **Apr. 2025 - Jun. 2025**
- Conducted Stanford's Code in Place CS106A course to students globally, taken by 2,000+ students
- Educated students in Python leveraging beginner-friendly libraries such as Stanford's Karel and Tkinter

Full-Stack Developer Intern - PatentIt **Jul. 2024 - Oct. 2024**
- Developed full-stack app using Next.js, integrating dynamic data and RESTful APIs for responsive user experiences
- Implemented CUDA-accelerated similarity algorithms, achieving a 3.5x speedup in comparison performance
- Architected backend infrastructure using AWS services, to efficiently handle large-scale patent similarity analysis

Robotics Engineer - SASE Engineering **Jan. 2023 - May 2024**
- Presented robots to both NVIDIA's co-founders, Jensen Huang and Chris Malachowsky, and 50+ other guests
- Engineered a computer vision model on Jetson Nano, allowing real-time analysis and responses
- Leveraged LangChain to embed 100+ UF SASE-specific data, to effectively respond to SASE-related inquiries
- Optimized system performance from ~35s to ~5s through integrating multithreading, ensuring seamless operation

Machine Learning Engineering Intern - Tampa Electric Company **Jan. 2024 - Apr. 2024**
- Led a team of 6 Data Scientists and ML Engineers focused on Anomaly Detection in a Voltage Time Series
- Trained Long Short-Term Memory, ARIMA, SARIMA, and Autoencoder Models for Time Series Forecasting
- Applied NumPy, SciPy, and CuPy to accelerate matrix operations and enable GPU-based statistical modeling

Software Engineering Intern - Northrop Grumman **Jun. 2023 - Aug. 2023**
- Developed the Document Automated Work Generator (DAWG), an end-to-end document generation pipeline using a directed acyclic graph structure to produce Bash, Python, and LaTeX scripts
- Processed a dataset of 1,000+ files leveraging DAWG to make PDFs, resulting in over a 90% reduction of total documentation time, and reduced the specific document tested from 6 weeks to a mere 80 seconds
- Revamped user experience for 30+ engineers through the implementation of a GUI using PyQT

Leadership

President - Society of Asian Scientists and Engineers **Apr. 2024 – Apr. 2025**
- Managed a team of 22 board members to productively plan and execute 75+ annual events for 800+ members
- Overseed a budget of over $50,000 for events, advertising, programming, food, and professional resources

Project

AthleteAI (1st in Google's Track) - ShellHacks **Sep. 2023**
- Secured 1st place for Google/1200+ hackers by developing a Next.js/Flask app to democratize elite sports coaching
- Evaluated 32 body data points using OpenCV across 7 different sports to showcase user technique proficiency
- Refined 40+ video datasets for optimal integration with a custom algorithm, enhancing model accuracy
- Containerized app using Docker, orchestrated with Kubernetes, and deployed onto GKE for scalable infrastructure