

Vien Tran

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Objective

Highly motivated and detail-oriented Computer Engineering student from Georgia Tech with a strong foundation in software development, hardware engineering, and IT Consulting. Seeking internship opportunities that leverage my skills in system analysis, process optimization, and innovative tech solutions. Adept in driving operational efficiency, leveraging data-driven insights, and excelling in collaborative environments with strong communications and problem-solving skills.

Education

Georgia Institute of Technology | Atlanta, GA

Computer Engineering threaded in Distributed Software Systems and Computer Hardware

August 2023 – May 2026
Expected Graduation, May 2026

Skills

Programming: Java, Python, C, MIPS Assembly, Verilog, JavaScript

Hardware: myDAQ, Arduino, FPGA, ESP32

Software: Quartus Prime Lite, NI Elvismx, Visual Studios, Photoshop CS6, Sony Vegas, Adobe, IntelliJ

Languages: English, Vietnamese (Intermediate)

Experience

STRIKE | Create-X Start-Up | Atlanta, GA

Summer 2024 - Present

Founder and Lead Developer

- Developed a smart boxing tracking device that measures key metrics like power, speed, and force, transmitting data in real-time via Bluetooth to a smartphone app
- Refined product testing, improving the accuracy of impact measurements up to 109 Pa ensuring device durability and user comfort
- Managed product launch and marketing outreach, positioning the product as an essential tool for professional training in boxing gyms while also promoting its use for individual fitness enthusiasts aiming to improve performance

Vertically Integrated Project Research at Experimental Flights | Atlanta, GA

August 2024 - Present

Experimental Flights Vertically Integrated Researcher

- Refined and optimized drone hardware for delivery drone systems capable of picking up and delivering packages on campus
- Led efforts in troubleshooting and repairing electrical components and circuits, enhancing overall drone's performance, durability, modularity, and reliability
- Contributed to development of drone carrier design development for improved delivery.

OMOMI Industries | Atlanta, GA

October 2023 - December 2023

Lead RTC Data Analyst Intern

- Spearheaded data analytics initiatives to identify and resolve inefficiencies in operations, enhancing productivity by 15%.
- Developed and implemented data-driven strategies for transportation logistics, optimizing delivery schedules and reducing operational costs
- Facilitated cross-functional collaboration to streamline processes, ensuring timely project completion

Projects

Crescent Cloud AI ChatBot | Headstarter AI

Summer 2024

- Led the development of an advanced AI chatbot, progressively enhancing functionality through the integration of AWS Bedrock and RAG (Retrieval-Augmented Generation) technologies to serve for Crescent Cloud Technology
- Architected and deployed the chatbot on AWS EC2, optimizing for performance, scalability, and real-time interaction capabilities
- Delivered a sophisticated AI solution, capable of intelligent, context-aware user interactions, significantly improving user experience

JetShooter mBed System Project | Personal

Summer 2024

- Engineered a fully interactive game on a custom-built embedded system deployed on a Arduino MBED LPC1768, utilizing C programming for optimal performance and memory management
- Integrated interactive user interfaces and real-time gameplay mechanics, showcasing proficiency in embedded systems design.

Assembly DNA Binary Search Project | Personal

Summer 2024

- Constructed a comprehensive MIPS project that performs a binary search algorithm on a DNA sequence, optimizing efficiency by reducing the dynamic instruction count by 50% and minimizing the static instruction count by 41%.
- Optimized low-level performance and efficiency in assembly code, demonstrating advanced knowledge in algorithms and system architecture.