

Jaiden Nguyen

443-554-4855 | 22jnguyencollege@gmail.com | [linkedin.com/in/jaiden-nguyen](https://www.linkedin.com/in/jaiden-nguyen) | <https://github.com/JavaJaiden>

EDUCATION

University of Maryland

Expected Graduation in May 2026

Undergraduate Computer Engineering Junior

College Park, MD

- **Hard Skills:** Java, Swift, Python, C, Rust, Javascript, AutoCAD, SolidWorks, MatLab, and Microsoft Excel
- **Soft Skills:** Communication, Adaptability, Time Management, Critical Thinking, Detailed, Curious and Creative

EXPERIENCE

Wabtec Corporation

Nov 2024 – Jan 2025

Lead Product Development Engineering Intern

Hybrid

- Led an industry-sponsored project through Penn State University in close collaboration with Wabtec, designing an Auger Drill Attachment to enhance operational efficiency, sustainability, and cost-effectiveness in open-pit mining.
- Developed schematics using AutoCAD and SolidWorks, refining mechanical designs for real-world implementation

Vantage Tech Inc.

May 2024 – August 2024

Project Engineer Intern

Remote

- Provided technical support to pharmaceutical clients including Otsuka & Pfizer, resolving complex system issues
- Designed and implemented a statistical analysis quality metric program to monitor supplier performance based on client operations, ensuring compliance with industry standards and helping identify any possible inefficiencies

PROJECTS

Bitcoin Mining Rig (Converting to AI cluster)

Oct 2020 - Present

Python

- Engineered a large-scale crypto mining operation utilizing **32 NVIDIA RTX 3090 GPUs**, gaining expertise in troubleshooting, optimizing mining efficiency, and managing electrical load balancing for high-performance systems
- Developed a deep understanding of PC hardware/software, NiceHash mining software, cooling solutions, pin connections, and power supply configurations ensuring sustained mining operations and potential profitability

Fact Checker

March 2025

Swift

- Designed and developed an AI-powered fact-checking app in Swift that processes image-based queries and cross-verifies responses using both ChatGPT and Google Gemini APIs with both running simultaneously.
- Gained in-depth knowledge of API communication and integrating Large Language Models (**LLMs**) via APIs
- Strengthened expertise in app development and **Swift** programming while ensuring an intuitive user experience.

Quick Host

January 2025

Java

- Built RESTful API endpoints handling **10,000+ daily user file uploads** with **99.97% uptime** and reliability
- Achieved average **response time of 12ms** for file retrieval operations under peak load conditions and stress
- Optimized system performance to handle concurrent requests from **500+ simultaneous users** efficiently

EXTRACURRICULAR ACTIVITIES

Vietnamese Student Association

August 2023 – Present

Multicultural Inclusion Lead

- Collaborated with peers to organize events, including cultural showcase festivals, educational workshops, and community service initiatives aimed at promoting Vietnamese heritage and fostering cross-community engagement
- Engaged in cross-cultural dialogues, enhancing cultural understanding and diversity awareness among students

Data and Cloud Computing Society

October 2023 – May 2024

Digital Design

- Helped provide a platform for students to consistently explore tools like **AWS**, **Google Cloud**, and **Azure**