

# Jaiden Nguyen

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## EDUCATION

### University of Maryland

*Undergraduate Computer Engineering Junior*

Expected Graduation in May 2026

*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)

July 2024

*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

March 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**