

Aaron Nguyen

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EDUCATION

Florida International University

Bachelor of Arts in Computer Science, GPA: 4.0/4.0

January 2021 – May 2024

Miami, FL

EXPERIENCE

LinkedIn

Software Engineer Intern

May 2023 – September 2023

Sunnyvale, CA

- Pioneered the adoption of a device management open-source project in **Go**, achieving an annual cost savings of **\$2.5M** and managing **30,000+** daily active corporate devices.
- Designed **MySQL** schemas, performed migration for new tables, and implemented data access APIs with concurrency-safe mechanisms, resulting in a **30%** increase in write performance.
- Architected highly scalable backend APIs with integrated pagination and browser caching for URL queries, resulting in a **50%** reduction in page load time.
- Enhanced logging system to support **Azure** services, resulting in a **25%** performance improvement and eliminating intermediate log parsing.
- Automated **Azure** CI/CD pipelines, optimizing build time by **20%** through dependency caching.

Microsoft

Software Engineer Intern

May 2022 – August 2022

Redmond, WA

- Contributed to an open-source quantum circuit visualization library in **TypeScript**, providing quantum researchers and educators with essential visualization capabilities.
- Implemented a reactive state management system, optimizing application responsiveness, centralizing state, and synchronizing data across multiple components.
- Enhanced visualization by integrating a dynamic drag-and-drop feature, empowering users with improved interactivity and extensive customization options.

NASA

Software Engineer Intern

January 2022 - May 2022

Huntsville, AL

- Migrated and upgraded a submission platform for a space research competition worth **\$1M** in prizes, facilitating the participation of **250+** international teams.
- Engineered responsive and cross-platform user interfaces, coupled with optimized table schemas to efficiently aggregate data from normalized tables, ensuring a cohesive and seamless user experience.
- Collaborated with the **Canadian Space Agency** to optimize submission processes, ensuring fairness and standardized operations for competition initiatives.

U.S. Department of Veterans Affairs

Software Engineer Intern

August 2021 - December 2021

Orlando, FL

- Developed a proof-of-concept messaging application, facilitating communication with volunteers and veterans.
- Conducted user experience research, designed low-fidelity wireframes, and created a prototype by leveraging the web socket protocol to enable seamless real-time, bidirectional communication.
- Crafted detailed design documentation, encouraging collaboration among team members and facilitating future development initiatives.

PROJECTS

Litkode | Python, JavaScript, FastAPI, Next.js, SQLite

- Led a team of engineers to create an interview prep full-stack web application in a 36-hour hackathon.
- Integrated SWR (Stale-While-Revalidate) to optimize data retrieval, resulting in a responsive application with minimized load times and reduced server requests.

TECHNICAL SKILLS

Languages: Go, Python, Java, C#, C, JavaScript, TypeScript, HTML, CSS, SQL

Frameworks: Next.js, React.js, Nest.js, Node.js, FastAPI, Jest

Tools: Git, Docker, GitHub, Azure DevOps, Nginx, Neovim, Visual Studio Code, JetBrains