

# Quan Nguyen

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## EXPERIENCE

**Research Assistant** - Department of Anesthesiology, UMN, MN

Mar 2024 - Present

- **Technical lead** for the department's medical research team, overseeing all aspects of software development, including web and mobile applications.
- Increased accessibility to research programs by engineering **3** websites using **Drupal**, **HTML5**, **CSS3**, and **JavaScript**
- **Engineered a cross-platform mobile application** using **React Native**, **JavaScript**, and **Tailwind CSS** to track and analyze patient pain levels on both iOS and Android devices, ensuring a consistent and intuitive user experience.

**Backend Developer Intern** - SkyIT, remote

May 2024 - Aug 2024

- Elevated the backend of an internal employee management tool by introducing new key features such as task tagging and task recurring using **Python** and **Django REST**, improving workflow automation and usability.
- **Developed and maintained unit tests** to ensure seamless integration of new features within the company's task assignment platform, significantly reducing regression issues.
- Optimized existing codebase by refactoring legacy code, improving application performance by 20% and reducing technical debt by 10%.

**WordPress Developer Intern** - Switchboard BBS, MN

May 2024 - Aug 2024

- Enhanced and maintained a community **WordPress** site by developing new features, optimizing existing pages, integrating and customizing plugins, and ensuring seamless user experience across devices.
- Collaborated with stakeholders to gather requirements and integrate custom plugins for better site functionality.

**Full-Stack Developer Intern** - Newwave Solutions, Hanoi

Aug 2023 - Dec 2023

- Optimized user account management and strengthened system reliability for over 1000 active users by deploying **RESTful APIs** with **TypeScript**, **NodeJS**, and **NestJS**, achieving a **40% improvement in load time** and a **significant reduction in crash reports**.
- Designed and implemented **user privilege separation** and **token-based authorization** to ensure secure and efficient access control.
- Ensured robust performance of admin/user APIs by API testing and validation using a staging database, Postman, Swagger, and **SQL** queries to verify and manipulate data.

**Product Management Intern** - Fazz Financial, Singapore

May 2022 - Aug 2022

- Boosted transaction flexibility and efficiency for 500+ users by launching a new multi currency transaction feature, expanding the company's financial services.
- Enhanced brand identity and increased user engagement by successfully launching the company's rebranding project.
- Collaborated with UI designers, developers, and clients to define and analyze product requirements, ensuring alignment with business goals and customer needs.
- Conducted in-depth market research and compiled reports, proposing product and feature ideas.

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## SKILLS

**Programming Languages:** Java, Python, C/C++, OCaml, Assembly, MySQL, HTML5, CSS3, TypeScript, JavaScript

**Frameworks:** ReactJS, React Native, NodeJS, NestJS, REST API, JSON, JUnit, Django

**Platforms & Tools:** Linux/Unix, Git, Github, Oracle, VSCode, Android Studio, MongoDB, TablePlus, Docker, Slack, Notion, Jira, Swagger, Postman, Figma, Canva, MS Office, Excel, IntelliJ, WordPress

**Development Methodologies:** Agile, Scrum, Waterfall

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## PROJECTS

**Google Maps Integration:** Created an interactive web interface that displays nearby points of interest based on user clicks. Built with JavaScript and the Google Maps API, using asynchronous requests to fetch and display data. Implemented location autofill features and proximity-based search with JSON responses.

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## LEADERSHIP

**Jr. Software Engineer Intern** - Y STEM and Chess, Remote

Feb 2024 - Apr 2024

Designed and tutored Python programming lessons to beginners, focusing on fundamentals, data structures, and problem-solving skills.

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## EDUCATION

**University of Minnesota** - Minneapolis, MN

Expected Graduation: Dec 2024

Major: Computer Science (BS) | Minor: Management