Matthew Nguyen

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Seeking Software Engineering Internship

I am a passionate problem solver excited by the challenge of addressing complexity in dynamic and changing environments, driven by the desire to use my technical knowledge to deliver impactful results.

EDUCATION

Gonzaga University   Aug. 2021 - May 2025
Bachelor of Science in Computer Science   *Spokane, WA*
GPA: 3.98/4.00

SKILLS

Languages: C/C++, Python, x86 Assembly, Lua, SQL, HTML/CSS, JavaScript
Developer Tools: Git, Make, Vim, Zsh, VS Code, Visual Studio, Jira, Confluence, GitLab, macOS, Linux, Windows
Libraries & Frameworks: Qt, Pandas, NumPy, JQuery

EXPERIENCE

Software Engineer Intern   Aug. 2023 – Present
Infineon Technologies   *Portland, OR*
- Enhanced ModusToolbox, a suite of tools providing a development environment for microcontroller devices
- Created a user-friendly feature enabling the writing and storage of comments during lookup table configuration
- Utilized Jira for tracking features and bugs alongside Confluence for thorough design documentation

Topology Research Assistant   Jan. 2023 – May 2023
Gonzaga University   *Spokane, WA*
- Conducted data collection and analysis using Python libraries, including Pandas and NumPy
- Integrated optimizations, including automatic API account switching and a stochastic weighted selection algorithm
- Shared research findings and insights by presenting at the Spokane Intercollegiate Research Conference

Computer Science Lab Manager   Aug. 2021 – May 2022
Gonzaga University   *Spokane, WA*
- Wrote Bash scripts to streamline maintenance tasks and automate software installations on lab machines
- Assisted students in diagnosing and resolving technical issues, both software and hardware-related
- Oversaw computer systems and maintained a clean lab environment in the Computer Science department

PROJECTS

Luna-Jetson | *Python, Jetson, Twilio, Flask, Ngrok*   May 2023 – Present
https://github.com/mootqns/luna-jetson
- Created a real-time pet tracking system with Python, NVIDIA's Jetson Xavier AGX, and JetPack SDK
- Enabled smart notifications using Twilio for pet presence, preventing repeated alerts on entry
- Used Flask and ngrok to serve and securely share static images to conform to Twilio's expectations

Dog Guesser | *HTML/CSS, JavaScript, Node.js, MongoDB*   Oct. 2022 – Nov. 2022
https://github.com/mootqns/dog-guesser
- Conceptualized a full-stack quiz-based web application focused on dog breed identification from images
- Designed a simple yet engaging user interface using HTML, CSS, JavaScript, and JQuery
- Implemented a robust leaderboard system with data storage powered by Node.js and MongoDB

Colorize-Zsh | *macOS, Zsh*   June 2023 – Present
https://github.com/mootqns/colorize-zsh
- Developed a Zsh script that enables live customization of the command prompt color in the macOS terminal
- Ensured an intuitive command-line interface (CLI) with clear usage instructions