Matthew Nguyen

☎ (503) 473-7870 | ✉ mqn360 | 🔗 LinkedIn | ⚙ GitHub | 🌐 mootqns.me

Passionate problem-solver who thrives in dynamic, ever-changing environments and driven by the excitement of the unknown. The desire to understand the world through the lens of computing fuels my eagerness to apply my knowledge in crafting uplifting solutions in impactful fields. Outside of technologies, my interests include snowboarding, mindfulness, and loose-leaf tea.

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, 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
- Utilized Jira for tracking of features and bugs, alongside Confluence for thorough design documentation
- Created a user-friendly feature enabling writing and storage of comments during lookup table configuration

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
- Provided assistance to 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 expecations

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 macOS terminal
- Ensured a user-friendly command-line interface (CLI) including usage instructions