

# Matthew Nguyen

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## EDUCATION

### Gonzaga University

*Bachelor of Science in Computer Science*

GPA: 3.98/4.00

Aug. 2021 - May 2025

*Spokane, WA*

## 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

*Infineon Technologies*

Aug. 2023 – Present

*Portland, OR*

- Enhanced ModusToolbox, a suite of tools providing a development environment for microcontroller devices
- Addressed production bugs and improvements in existing desktop tools utilizing CI/CD pipelines to rapidly iterate
- 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 (LUT) configuration

### Topology Research Assistant

*Gonzaga University*

Jan. 2023 – May 2023

*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
- Collaboration through Git for version control, weekly meetings, code reviews, and brainstorming sessions.
- Shared research findings and insights by presenting at the Spokane Intercollegiate Research Conference

### Computer Science Lab Manager

*Gonzaga University*

Aug. 2021 – May 2022

*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, Make*

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
- Automated program execution with a Makefile for Flask, ngrok, and object detection components

### 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
- Leveraged the 'https' library in Node.js to enable responsive image retrieval, integrating the Dog CEO API
- 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 macOS (Zsh shell) script that enables live customization of the command prompt color
- Ensured a user-friendly command-line interface (CLI) including usage instructions