

Thomas Nguyen

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EDUCATION

Washington State University

Pullman, WA

B.S., Computer Science | Anticipated Graduation: May 2028

Aug 2024 — Present

EXPERIENCE

Crimson Robotics

Washington State University, Pullman, WA

- Designed and developed competition robots in SolidWorks under strict design constraints.
- Led robot assembly and quality control, ensuring all mechanical components were correctly installed, aligned, and competition-ready.
- Collaborated in a 5-member team to integrate hardware and software systems for competitive robotics events.
- Achieved 1st overall in two WSU-hosted robotics competitions, competing against 10+ internal and external teams.

Fall 2024 — Present

Wazu Racing — Data Acquisition

Washington State University, Pullman, WA

- Coordinated with electrical and framing teams to define wiring and dashboard layout for a racing vehicle.
- Designed dashboard interfaces to display key performance metrics and implemented real-time data collection systems.

Fall 2024

PROJECTS

PostScript Interpreter

Independent Project — Rust

- Built a PostScript interpreter in Rust for CPTS 355, featuring a stack-based execution engine with dynamic and lexical scoping.
- Developed a complete REPL supporting arithmetic, control flow, arrays, dictionaries, strings, and type conversion.
- Achieved high test coverage with unit and integration tests; integrated CI via GitHub Actions.

Spring 2026

Spreadsheet Application

Independent Project — C# / .NET

- Built a from-scratch spreadsheet in C# (WinForms, .NET 10) for CPT_S 321 using expression trees and the Shunting-yard algorithm.
- Built a reactive cell dependency graph with circular reference detection and automatic re-evaluation on change.
- Applied the Command design pattern for multi-level undo/redo; added XML save/load and NUnit test coverage.

Spring 2026

Cascade Crust — Website Redesign & Catering Workflow System

Freelance

- Collaborating with a small business owner to redesign and modernize a food truck catering website serving the Yakima Valley.
- Migrating existing site via FTP while maintaining live uptime during active wedding booking season.
- Building a 3-stage catering request system: web intake form, scoped proposal, and event game plan — shareable with clients via Excel.
- Updating menu, testimonials, partnerships, and brand-matched design including colors, fonts, and imagery.

Jan 2026 — Present

Personal Portfolio Website

Independent Project

- Designing and developing a personal portfolio website to showcase software and engineering projects.
- Implementing a clean, responsive layout with project highlights, technical skills, and contact information.

Jan 2026 — Present

SKILLS

Languages: C++, Python, C#, Rust

Web & Backend: React, FastAPI

Databases: PostgreSQL

Libraries & Data: NumPy, Pandas

Game Development: Unity, SFML, Godot

AI & LLM: LLM API Integration, Prompt Engineering

Tools & Platforms: Git/GitHub, WSL (Windows Subsystem for Linux), SolidWorks

Collaboration: Microsoft Teams, Slack, Zoom, Microsoft Office (Excel, Word, PowerPoint)

Concepts: Object-Oriented Programming, Data Structures, Version Control, Hardware Assembly, Technical Documentation

REFERENCES

Cory Heron — Owner, Cascade Crust | Yakima Valley, WA

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