

Joseph Patricio

Vancouver, WA

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Summary

Software Engineer with hands on experience designing and building full stack web applications and data driven backend systems. Strong foundation in data structures, algorithms, REST APIs, and database design through production scale academic and capstone projects.

Technical Skills

Languages: Java, JavaScript, Python, C/C++, HTML/CSS, C#

Frameworks and Libraries: React, Node.js, Express, Flask, Leaflet

Databases: PostgreSQL, MySQL, Supabase

Tools & Systems: Git, Docker, Linux, Bash, Vite, GitHub Actions, Jest, pytest

Core Concepts: Data Structures & Algorithms, RESTful APIs, OOP, MVC, Geospatial Data Processing

Technical Projects

Sitka Sound Science Center - Marine Debris Database

January 2025 to December 2025

<https://sitka-sound-science-center-marine-debris.com>

- Designed and implemented a geospatial data platform using PostgreSQL and PostGIS to store and query real world environmental cleanup data.
- Designed a Flask backend exposing RESTful GeoJSON endpoints supporting spatial filtering and aggregation over thousands of cleanup records.
- Developed an interactive frontend with JavaScript and Leaflet to visualize live cleanup locations on a map interface.
- Worked directly with stakeholders to translate operational requirements into a deployable and maintainable software system.

Welcome to America - Full Stack Web Application

April 2025 to June 2025

<https://github.com/welcome-to-america>

- Built a full stack web application providing centralized immigration and community resources with a focus on accessibility and usability.
- Implemented a React single page application using Vite and Tailwind CSS with client side routing.
- Developed a Node.js and Express backend delivering REST APIs for structured content and data management.

Education

Western Washington University

September 2022 to December 2025

Bachelor of Science in Computer Science

Relevant Coursework: Data Structures and Algorithms, Databases, Software Engineering, Operating Systems

Olympic College

September 2020 to June 2022

Associate of Arts

Professional Experience

YunGaNe - Restaurant Manager

June 2024 to December 2025

- Led daily operations in a high volume environment while prioritizing reliability, problem solving, and time critical decision making.
- Trained and coordinated staff schedules, strengthening communication and accountability across the team.