

Matheus Mielle Silva

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Experience

Full Stack Developer, Hewitt Learning – Spokane, WA Feb 2025 – May 2025

- In a five-person team, developed a full-stack platform for the non-profit Hewitt Learning to modernize their legacy testing system
- Built secure RESTful APIs with C# and ASP.NET Core to manage test ordering, scoring, and student data
- Developed a responsive frontend with React (TypeScript), securing user sessions with JWT authentication
- Containerized the application with Docker and deployed it on a Raspberry Pi using Nginx for a cost-effective, self-hosted solution

Software Development Engineer Intern, Amazon – Seattle, WA June 2024 – Aug 2024

- Developed a new cancellation flow for the Amazon Digital Subscriptions team to enhance user experience
- Designed and implemented intuitive UI widgets to guide customers through a seamless and informative cancellation process
- Created a dedicated page for users to provide feedback and share their reasons for canceling the subscription
- Developed unit and integration tests to ensure the reliability and efficiency of the cancellation flow

Summer Student Researcher, Whitworth University – Spokane, WA May 2023 – July 2023

- Helped develop, assemble, and test a system for environmental research at Gonzaga University and Oregon State University
- Used Python to interface with the Raspberry Pi's that controlled the system
- Designed Printed Circuit Boards (PCBs) to better organize the system
- Budgeted and designed other system options, focusing on cost, efficiency, and scalability

Projects

NavigateCity.com

- A modern web app that helps travelers explore cities worldwide with detailed information on museums, restaurants, parks, landmarks, and local cuisine
- Tools Used: React, TypeScript, Python - Flask, MySQL, Docker

Article Classification Program

- A full-stack application that classifies articles from URLs or raw text using a Python API and a MySQL database
- Tools Used: C++, Python, Flask, MySQL, Docker

JungleWordMania

- A multiplayer vocabulary game for classrooms, featuring custom word lists, game creation, and leaderboards.
- Tools Used: Python - Flask, JavaScript, MySQL, HTML, CSS

Education

Whitworth University, BS in Computer Science Sept 2021 – Aug 2025

- **GPA:** 3.6/4.0
- **Awards:** Computer Science Departmental Award | 2022-2023, 2023-2024

Technologies

Languages: C++/C, Java, C#, SQL, JavaScript, Python

Frameworks/Tools: ASP.NET Core, React, Docker, MySQL, Microsoft SQL Server, JSP, nginx

Cloud & DevOps: Git, REST APIs, JWT, Raspberry Pi, WooCommerce API (from PASS)