

# John Alvin Ambalong

Full-Stack Developer Walla Walla, WA

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## SUMMARY

Junior Full-Stack Developer specializing in **Ruby on Rails** and **Hotwire**. Currently pursuing Bachelors in Computer Science with a focus on modern web development and DevOps. Proven ability to build functional applications, solve complex technical problems, and work effectively in team environments.

## TECHNICAL SKILLS

- **Languages:** Ruby, JavaScript (ES6+), Golang, SQL (PostgreSQL, MySQL), HTML5, CSS3, GDScript.
- **Frameworks:** Ruby on Rails, Hotwire (Turbo/Stimulus), React.
- **Tools & DevOps:** Git/GitHub, Docker, Kamal, DigitalOcean, Heroku, Neovim.
- **Testing:** RSpec, Jest, Test-Driven Development (TDD).
- **IT Support:** Hardware/Software troubleshooting, OS Administration (Windows/Linux), Networking.

## TECHNICAL PROJECTS

**Pangu Terminal** | *Rails 8, Hotwire, PostgreSQL, Kamal, Docker*

- Built a "SPA-like" experience using **Turbo Frames and Streams** for real-time filtering without page refreshes.
- Engineered a **polymorphic database structure** to link user plans across multiple models, improving scalability.
- Implemented **Form Objects** to decouple UI logic from the database and simplify complex validations.
- Optimized performance by resolving **N+1 queries** and migrating JSON data to indexed columns.
- Developed a **Guest-to-User sync system** that migrates anonymous cookie data to Devise accounts upon sign-up.

**Project Pounce** | *GDScript, Godot Engine*

- Developing a platformer featuring a custom physics system for responsive gameplay and modular level transitions.

**Chess CLI** | *Ruby, RSpec*

- Built a terminal-based chess game using **OOP principles**; includes full move validation and RSpec testing.

## WORK EXPERIENCE

**IT Intern** | Walla Walla Community College | *Jan 2025 – Present*

- Performed hardware assembly, disassembly, imaging, and deployment for new computers and laptops, ensuring readiness for institutional use.
- Diagnosed, troubleshoot, and resolved technical issues related to audio/video consoles, including setup and maintenance for various campus events.
- Executed secure data wiping protocols for Microsoft Surface devices and replaced projector bulbs, maintaining operational efficiency and data security.
- Gained practical experience in hardware and software troubleshooting, including operating system installation (Windows, Linux) and basic network connectivity issues.

**Administrative Assistant** | Columbia Basin Benefits | *Sept 2024 – Nov 2024*

- Automated CRM workflows and built website funnels, increasing internal team efficiency by 20%.

**Operations Team Lead** | Bon Appétit Management Company | *Sept 2023 – May 2024*

- Led high-volume kitchen operations and mentored staff, improving service efficiency by 25%.

## EDUCATION

**Bachelor in Computer Science** | Western Governors University | *In progress*

**Associates in Software Design** | Walla Walla Community College | *Expected June 2026*

**Undergraduate Studies (CS & Math)** | Washington State University | *2018 – 2019*