

John Alvin Ambalang

Software Engineer - Walla Walla, WA

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SUMMARY

Software Engineer specializing in Ruby on Rails with hands-on IT operations experience. Currently pursuing a Computer Science degree while building production-ready applications and providing technical support. I pride myself on being the person who figures it out. Whether debugging a Rails controller or troubleshooting campus workstations, I research and test until I find the solution.

TECHNICAL SKILLS

Languages: Ruby, JavaScript (ES6+), SQL (PostgreSQL, MySQL), HTML5, CSS3, Golang, GDScript

Frameworks & Tools: Ruby on Rails, Hotwire (Turbo/Stimulus), React, Docker, Kamal, Git/GitHub

DevOps & Infrastructure: DigitalOcean, Linux/Windows Administration, CI/CD (GitHub Actions)

Testing & Practices: RSpec, Test-Driven Development (TDD), Object-Oriented Design

TECHNICAL PROJECTS

Pangu Terminal | Rails 7, Hotwire, PostgreSQL, Docker, Kamal 2

Resource-optimization platform for Wuthering Waves bridging static wiki data and active player inventory

- Engineered Rails application using Hotwire (Turbo/Stimulus) delivering reactive, SPA-like interface without client-side framework overhead
- Implemented polymorphic database structure and recursive calculation engine to solve multi-level item dependency trees
- Eliminated N+1 query bottlenecks via eager loading and optimized performance by migrating JSON data to indexed columns
- Developed Guest-to-User sync system allowing anonymous users to migrate cookie-based plans to permanent Devise accounts
- Containerized with Docker and deployed to DigitalOcean using Kamal 2

Ruby Chess Engine | Ruby, RSpec, Git

- Built terminal chess game with full move validation, collision detection, and Check/Checkmate logic using OOP principles
- Applied Single Responsibility Principle ensuring modular codebase with comprehensive RSpec test coverage

Pebble List | React, JavaScript, Vite

- Built task management app implementing full CRUD functionality with immutable state patterns using React hooks
- Designed modular component architecture (TaskInput, TaskList) managing real-time data flow between parent/child components

WORK EXPERIENCE

Information Technology Intern | Walla Walla Community College | Jan 2025 – Present

- Execute OS imaging and hardware assembly for staff/student workstations ensuring standardized, secure technical environments
- Enforce data privacy protocols by physically removing and securely wiping SSDs from legacy hardware prior to decommissioning
- Organize raw lab-usage data into executive summary reports for departmental review
- Conduct A/V inventory audits and support IT team with server room hardware adjustments

Virtual Assistant | Columbia Basin Benefits | Sept 2024 – Nov 2024

- Configured third-party CRM platform to automate lead-management workflows and trigger-based client communications
- Built front-end conversion funnels and automated email sequences, establishing foundational technical infrastructure

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

- Led high-volume kitchen operations and managed inventory workflows, improving service efficiency and quality control
- Coordinated staff and resource allocation to ensure operational standards and safety compliance

EDUCATION

Associate of Applied Science in Software Design | Walla Walla Community College | Expected June 2026

Relevant Coursework: DevOps & Infrastructure, Unix/Linux Systems, Database Design, Dynamic Web Design

Undergraduate Studies (Computer Science and Mathematics) | Washington State University | 2018 – 2019