

ANDREW FORSTER

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EDUCATION

Grand Canyon University

Bachelor's, Software Development

- Minor in Cyber Security

August 2023 - December 2026

PROFESSIONAL EXPERIENCE

A5 Software LLC — Client: Walker & Homes Photography

Software Engineer (Contract)

Portland, OR, USA

May 2025 - Present

- Replaced a client's dependency on Aryeo by rebuilding their entire business platform from scratch; sole developer after the original team dropped mid-project; now the operational backbone of a \$12k/month photography business.
- Shipped 10+ pages and modules including a bookings calendar, per-booking media pages, sales visualization dashboard, client retention dashboard, Kanban board, team and package management, and a shared client portal with collaborator invite access.
- Integrated Stripe and Square for payment processing with a secure OAuth-based client login portal.

Foodi Menus

Junior Software Engineer

Portland, OR, USA

April 2025 - February 2026

- Worked in a 3-person dev team to build an AI-powered PDF-to-menu importer into an existing platform, reducing client onboarding time by 50%; attended regular syncs and coordinated integration with the existing codebase throughout.

Triumph Tech

Web Developer

Surprise, AZ, USA

December 2024 - February 2025

- Built and delivered pages and components across 3+ church client sites, integrating front-end designs with a RockRMS backend within a 40+ person organization.
- Coordinated directly with 5 engineers across regular sprint meetings, navigating an existing codebase and contributing across planning and delivery.

Bbalaj Holdings (Alchemy Analytics)

Web Developer

Phoenix, AZ, USA

January 2024 - April 2024

- Architected and delivered the full front-end of an e-commerce platform from scratch; built to handle high-concurrency load, integrating Stripe checkout and RESTful product and filtering APIs; load tested and launched.

PROJECTS & OUTSIDE EXPERIENCE

Hexis - [Link to project](#)

- 229 sign-ups and 30 pre-launch paying customers, validated product-market fit before shipping.
- Built a 5-repo, 700+ file multi-language platform solo: a Fabric mod (Java + Rust + C native code via JNI), a Next.js SaaS backend, a Discord bot, and a Lua scripting engine with 30 API modules.
- Engineered a server-side licensing system using Ed25519 asymmetric cryptography, AES-256-CBC encrypted algorithm parameters ("math entanglement"), per-download dual-layer watermarking across 5 binary locations, and native tamper detection - successfully identified and patched a real-world software crack within days.
- Implemented A* pathfinding in native Rust via JNI achieving sub-100ms search for 150+ block distances, a Stanley Controller for smooth path following, and spring-damper camera physics with Ornstein-Uhlenbeck stochastic noise for statistically realistic human-like behavior generation.
- Shipped a full admin panel: user/license management, live session monitoring, license abuse detection, telemetry pipeline, JAR analyzer, and audit logs.

Writing Pilot AI

2025 - Present

- Built a full-stack AI browser extension; text selection, page reading, persistent memory, and chat; with a working payment system and admin dashboard in production
- Discontinued after identifying that Chrome's native AI eliminated the core value proposition.

SKILLS

Skills: HTML/CSS, React.js, Next.js, Express.js, MongoDB, TypeScript, Rust, Tailwind CSS, Java, C#, ASP.NET, Postgres, MySQL, RockRMS, Springboot, Docker, CI/CD, DevOps, Azure, Linux