

# Hayden Hargreaves

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U.S. Citizen - (623) 237-0838

Proactive Software Engineering student with extensive hands-on experience in backend development, DevOps, and full-stack application deployment. Proven ability to quickly learn new technologies and build robust, scalable solutions from the ground up. Seeking a challenging Summer 2026 internship to enhance my programming and cloud infrastructure skills while solving real-world problems.

## Education

### Embry-Riddle Aeronautical University

Prescott, AZ

Bachelor of Science: Software Engineering, Cybersecurity Minor. GPA: 4.0

Expected May 2028

Relevant Coursework & Clubs: Computer Science I/II, Data Structures and Analysis of Algorithms, Digital Circuit Design, Software Construction. IEEE Member and Tau Beta Pi Member.

## Technical Skills

**Languages** Go, Python, C#, JavaScript, Java, HTML/CSS, SQL, C/C++

**Backend & DevOps** Gin, .NET Docker, Nginx, Git, Ansible, Linux, CI/CD, Azure, AWS IoT, PostgreSQL

**Frontend & Tools** HTMX, React, Tailwind CSS, Templ, Neovim, JetBrains Suite, Visual Studio Code

## Professional Experience & Projects

### Poppin' Jobs

Remote

#### Full Stack Software Engineer

Mar 2025 – Current

- Develop scalable backend services using .NET and C#, architecting modular components within a monorepo structure to support growing business operations.
- Design API integrations between frontend and backend systems, optimizing data flows and response times to enhance user experience.
- Eliminated N+1 query anti-patterns through bulk query optimization, reducing database operations by 80% and improving system throughput for high-volume workloads.
- Engineered AI-powered serverless function on Azure Functions to automatically parse job descriptions and extract structured data, reducing manual data entry by 90%.
- Architected incremental legacy system migration using Strangler pattern, systematically modernizing critical components to reduce technical debt while maintaining service reliability.

### AI-Powered Acoustic Drone Detection Network

Prescott, AZ

#### Research Project, Sponsored by ERAU Undergraduate Research Institution

Sept 2024 – Aug 2025

- Led a team of students in architecting a distributed IoT system of edge devices, implementing real-time acoustic processing and ML inference for autonomous drone detection.
- Built custom messaging protocol using MQTT for reliable, low-latency data streaming between edge devices and cloud infrastructure, ensuring 99%+ message delivery.
- Designed cloud data pipeline on AWS IoT platform with automated data ingestion, storage, and analytics, enabling real-time monitoring and historical pattern analysis.

### Potion – Web Based Recipe Sharing Platform

#### Personal Passion Project

July 2025 – Current

- Developed a full-stack recipe-sharing platform, Potion, managing the entire application lifecycle from ideation and development to deployment and maintenance.
- Engineered a CI/CD pipeline to automate testing and deployment, ensuring a reliable and efficient update process.
- Architected and deployed the application on a self-hosted server and managed a dedicated PostgreSQL database, demonstrating expertise in system administration and data management.