

Stephaan Dahdal

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EDUCATION

Arizona State University's Ira A. Fulton Schools of Engineering | Tempe, AZ

Bachelor of Science in Computer Science | GPA: 3.9

May 2026

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Distributed Software Development, Database Management, Software Quality Assurance, Web Development

Awards & Honors: Dean's List (F22, S23, F23, S25, F25), F23 Fulton Engineering Pitch Deck Competition Runner-Up

EXPERIENCE

Benessere North | Ontario, CA (Remote)

August 2025 - Present

Software Engineering Intern (Capstone)

- Built health tracking **web app** enabling **meal logs**, **pain scores**, and **health metrics** with doctoral guidance
- Role-based authentication using **Auth.js** and **SvelteKit** with **SQLite/Drizzle ORM** for **user/admin/doctor roles**
- Deployed on **Cloudflare Pages** with **D1** database and **application-level encryption** for sensitive patient data
- Developed cohort management system with **milestone** tracking, **analytics** dashboards, and **audit logging**

AutoZone | Phoenix, AZ

June 2024 - Present

Customer Sales Expert

- Assisted customers by **diagnosing issues** when unsure, strengthening **problem-solving** and **communication skills**.
- Collaborated with a team to prioritize tasks and ensure efficient store operations in a **fast-paced environment**.
- **Communicated technical information** clearly to customers with varying levels of knowledge.

TECHNICAL PROJECTS

Programming Language Compiler & Interpreter | Personal Project | [GitHub](#)

April 2025

- Built full compiler and interpreter for a C-like language in **C++**, implementing **lexer and recursive-descent parser**
- Added symbol-table memory mapping and **control flow support** (if/while/for/switch); validated with **60+ test cases**
- Designed instruction-set VM with **register-based execution** model and runtime **memory management** for variables

Chain of Custody CLI | Personal Project | [GitHub](#)

November 2025

- Built **Python CLI** to track digital evidence lifecycle events with tamper-evident blockchain workflows
- Implemented **AES encryption** and **SHA-256** integrity checks with **state-transition validation** for evidence tracking
- Built role-based CLI with **argparse** for 7 commands supporting evidence **intake**, **checkout**, and **integrity verification**

Developer Portfolio Website | Personal Project | [GitHub](#)

February 2026

- Built modern portfolio website with Next.js, React, and TypeScript showcasing projects and experience
- Implemented smooth animations with Framer Motion/GSAP and production SEO (sitemap, metadata, social previews)

SKILLS

- **Programming Languages:** Python, TypeScript, Java, JavaScript, SQL, C/C++, C#
- **Frontend:** React, Next.js, Svelte, HTML/CSS, Tailwind CSS
- **Backend:** Node.js, PostgreSQL, Supabase
- **Tools:** Git, GitHub Actions, Cloudflare, Linux, UI/UX Design, Excel, CAD