

Pierre Smith

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PROFESSIONAL SUMMARY

Software engineering student interested in building practical web applications and backend systems that solve real-world problems. Experienced developing full-stack applications and APIs using JavaScript, Node.js, MongoDB, and Python through capstone and independent projects. Particularly interested in backend architecture, data-driven systems, and building tools that people actively use. Seeking a software engineering internship where I can contribute to production systems and continue growing as an engineer.

EDUCATION

Bachelor of Science in Computer Science

Arizona State University

Expected December 2026

Tempe, AZ

Associate in Science in Computer Science

South Mountain Community College

May 2024

Phoenix, AZ

WORK EXPERIENCE

Software Engineering Capstone Developer

Arizona State University – ConnectiveNet Capstone Project

January 2026 – Present

Tempe, AZ

- Designed and implemented backend systems and application architecture for a team-based professional networking platform
- Collaborated within a Scrum-based Agile workflow, participating in sprint planning, stand-ups, and regular team meetings

PROJECTS

RedCard API | Python, FastAPI

January 2026 – Present

- Engineered a FastAPI service that generates multilingual “Know Your Rights” PDF cards, implementing Unicode script detection, RTL text rendering, and adaptive typography across 56 languages and 22 writing systems.
- Designed a modular PDF rendering pipeline with script-aware text wrapping, adaptive font scaling, and dynamic layout algorithms for printable multi-card sheets.

Marketplace Cart | Node.js, MongoDB, JavaScript

March 2025 – Present

- Developed a full-stack web application that transforms secondhand marketplace listings into structured, searchable datasets by scraping and normalizing listing data from platforms like OfferUp and Facebook Marketplace.
- Designed MongoDB schemas and backend services supporting shared collections, ownership-aware item management, and cross-category cost aggregation for collaborative list management.

AZ Musician Finder | Node.js, Express, MongoDB, EJS, Cloudinary

January 2025 – Present

- Developed a full-stack platform for musicians to create profiles, upload media, and discover collaborators within local music communities.
- Architected MongoDB data models for users, songs, flyers, comments, and moderation workflows supporting scalable user-generated content.
- Engineered authentication, role-based access control, media upload pipelines, and dynamic server-rendered views for interactive content discovery.

TECHNICAL SKILLS

Languages | JavaScript, TypeScript, Python, C++, C#, Java, SQL

Backend & Frameworks | Node.js, Express.js, FastAPI, .NET

Databases | MongoDB, PostgreSQL, CSV, Excel

Developer Tools | Git, GitHub, Visual Studio, VS Code, Postman, Cloudinary