

# Alexander Sanchez Cyril

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## PROFESSIONAL SUMMARY

Software Engineer with hands-on experience designing, building, and deploying full-stack and backend applications using Node.js, Python, C#, and modern cloud tooling. I specialize in turning complex ideas into reliable, scalable software with a focus on clean architecture, performance, and maintainability. Experienced in React, Next.js, API development, database design, and CI/CD. I have independently developed and deployed multiple production-grade applications, demonstrating strong ownership and end-to-end engineering capability..

## SKILLS

**Languages:** JavaScript, TypeScript, Python, C#, SQL, Go (working knowledge), C/C++ (foundational)

**Frontend:** React, Next.js, Tailwind CSS, HTML5, CSS3, Electron

**Backend & APIs:** Node.js, ASP.NET Core, FastAPI, Django, REST APIs, Microservices Architecture

**Databases:** PostgreSQL, MongoDB, MySQL, SQLite

**Cloud & DevOps:** Docker, GitHub Actions, AWS (core services), CI/CD, Git

**Tools & Technologies:** Supabase, Firebase, Linux, Git, System Design, API Design

**AI & Data (Applied Experience):** Python, NumPy, Pandas, Scikit-learn, OpenCV, FastAPI (for data pipelines)

## PROFESSIONAL EXPERIENCE

Independent Software Engineer | Sep 2023 – Present

Independently designed, built, and deployed multiple full-stack and backend applications, focusing on API development, automation, and scalable system design. Managed full lifecycle from architecture and development to deployment and maintenance.

### AxioQuan – E-Learning Platform

Stack: Next.js (Full-Stack), TypeScript, PostgreSQL, Tailwind CSS

- Designed and built a full-stack e-learning platform using Next.js server architecture
- Implemented secure backend logic, database integration, and dynamic content delivery using PostgreSQL
- Developed responsive, modern user interfaces using Tailwind CSS
- Built core platform features including structured learning modules, content management, and user interaction flows
- Deployed and tested the platform to ensure reliability and performance

Live: <https://axioquan-two.vercel.app/>

### BudgetBuddy – Personal Finance & Expense Tracker

Stack: ASP.NET Blazor Server, PostgreSQL, Bootstrap

- Built a full-stack personal finance application to track expenses, manage budgets, and monitor financial activity
- Implemented secure server-side logic using ASP.NET Blazor Server architecture
- Designed and integrated PostgreSQL database for structured financial data storage and retrieval
- Developed responsive and intuitive user interface using Bootstrap
- Implemented real-time updates and efficient data handling for accurate financial tracking

Live: <https://budgetbuddy-u82p.onrender.com/>

### **Universal Time API – Global Time Platform**

- Stack: Node.js, TypeScript, Docker, Next.js, REST API
- Designed and developed a TypeScript-based REST API providing real-time global timezone data
- Reduced response time by 60% with caching
- Containerized the backend using Docker, creating images and containers for reliable deployment
- Built structured, scalable API endpoints for external developer and frontend integration
- Integrated API with Next.js frontend for real-time analog and digital time visualization

Live: <https://universaltime.vercel.app/>

### **Code Analyzer Studio – Desktop Code Visualization Tool**

- Stack: Python, Tkinter, TTKBootstrap
- Designed and developed a desktop application to visualize project structure and source code organization
- Implemented file tree mapping system to display hierarchical project structure for easy navigation
- Built full code display and snippet viewer to help developers trace code location and relationships
- Developed selective and standard structure views for flexible project analysis and exploration
- Created intuitive desktop interface using Tkinter and TTKBootstrap for improved developer productivity

Live: <https://www.alexandercyril.xyz/portfolio/download/codeanalyzer>

### **AI Web Scraper Pro – Desktop Data Extraction Application**

- Stack: Python, Tkinter, TTKbootstrap, NLTK
- Developed a desktop application for automated web data extraction and processing
- Automated extraction reducing manual work by 75%
- Built user interface using TTKbootstrap for structured interaction and usability
- Implemented intelligent text processing and data structuring using NLTK
- Designed modular Python scripts for scalable and reusable scraping workflows
- Implemented error handling and structured data output for reliability

Live: <https://www.alexandercyril.xyz/portfolio/download/webscraper>

## **EDUCATION**

**Bachelor of Science in Software Development** (Expected 2026)

Brigham Young University – Idaho

## **CERTIFICATIONS**

**Web Development**

Brigham Young University – Idaho, 2025

**Web & Computer Programming**

Brigham Young University – Idaho, 2024