



DEREK SINGLETON

Cincinnati OH
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Full Stack Developer with extensive experience in software system development, project management, and problem-solving. Proficient in both front-end and back-end development, with a track record of leveraging **cloud platforms** and integrating **IoT** and **sensor technologies**. Building scalable, high-performance applications. Passionate about advancing **artificial intelligence** solutions and driving innovation.

My Portfolio

<https://devhorizon.io/>



Skills

- JavaScript
- Python
- Data Analysis
- SDLC
- Java
- React
- .Net
- TypeScript
- NextJs
- Git
- Rest Api
- CSS / HTML

Education

Bachelor of Science in Data Analysis & Software Development
University of Cincinnati | In Progress

Associates in Software Development and Database Management
Cincinnati State | May 2024

Work History

Software Engineer

Balluff, Florence, Ky | August 2023 - Current

- **Collaborated** with a **team of 5** to **design** and **implement** robust **software systems** showcasing the company's **sensor technologies**, resulting in a **30% increase** in customer interest.
- Developed applications using **Python**, **JavaScript**, **HTML**, and **CSS** to enhance system functionality and reliability.
- Integrated communication protocols such as **Rest-API**, **TCP/IP**, **UDP**, and **EtherNet/IP** to improve communication efficiency.

Notable Projects

DevOverflow – Full-stack Web Application

Developed a scalable, full-stack web application inspired by Stack Overflow, utilizing **Next.js**, **TypeScript**, **MongoDB**, **Tailwind CSS**, **Prisma**, and **Clerk** for authentication.

- **Core features:** Advanced routing, dynamic theme switching, user authentication/authorization, responsive UI, form handling with **React Hook Form** and **Zod**, server-side data fetching (SSG, ISR, SSR), and MongoDB integration.
- Implemented real-time community features, voting systems, user profile management, search and pagination, and integrated **OpenAI** for automated answer generation.
- Focused on **SEO optimization**, responsive design, and **best practices** like ESLint and Prettier for code quality.

Live Forex Trading Bot

- **Developed a live, automated Forex trading bot** using **Python**, **Jupyter**, and **MongoDB**, deployed on **Linode**
- **Designed and built custom backend APIs** to handle trading operations and data management
- **Implemented cloud scraping** for real-time data acquisition, ensuring up-to-date market analysis

Logistics Management and Reordering Software

- **Spearheaded the development of an intuitive logistics management system** using **JavaScript**, **HTML**, and **CSS**, resulting in a **25% increase** in operational efficiency
- **Integrated hardware devices** like cameras, scanners, and RFID readers for real-time tracking, improving inventory accuracy by **95%**
- Implemented **API** interfaces with **PLCs**, automating workflows and increasing operational efficiency by **35%**

mySCADA Sensor Integration System

- Utilized **Python** and **JavaScript** to integrate over **120 sensors** with **8 Siemens PLCs**, **vision cameras**, **IO-Link master blocks**, and **RFID** technology - designed to showcase different technologies to customers.
- Deployed on a **server** accessible to the **local network**, enabling real-time data analysis and monitoring.