

Zachary Walsh | Frontend / Backend Developer

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Summary

Experienced Software Engineer and Web Developer skilled in building scalable full-stack applications with seamless, user-friendly interfaces. Developed systems that interface with hardware components and capture real-time user interaction and sales data. Designed and implemented databases and dynamic websites for interactive inventory management and sales analytics solutions.

Skills

Proficient in Python, C++, JavaScript, PHP, and MySQL, with strong expertise in front-end development using HTML and CSS. Skilled in API integration and experienced in creating modern, intuitive, and visually engaging user interfaces designed to enhance user interaction and drive sales conversions.

Work Experience

THRU Solutions | Smart Vending Technology
Software Engineer (*remote*)

May 2023 - October 2025

- Led the creation of a complex file & system maintenance program designed to ensure consistent clean functionality and continuity of a main software program
- Designed and managed a complex inventory / sales management database schema, focusing on efficient data storage & clean readable indexing.
- Played a crucial role in the creation and management of a full stack application that communicates with hardware, as well as handles all other core aspects of automated sales including serving modern & intuitive user interface components, keeping detailed records of customer interactions & sales data, payment processing, and updating inventory in real time with the security of a carefully written and integrated error handling / logging system that ensures 100% continuity of runtime.
- Designed and managed a full stack inventory / sales management etc. administration console designed with expert security, and for efficient management of user inventories, intuitive dashboards for sales analytics, and csv export functionality of any data needed, all with a modern & attractive user-friendly interface design.

Web Development Projects
Freelance web developer (*remote*)

December 2022 - Present

- **Good View Landscaping** | www.tgvlandscaping.com

Spearheaded full website development and launch for a landscaping company. The site is designed with a modern intuitive interface, with an image gallery of the company's work, a full list of the company's service & about page, as well as an email form to increase leads and improve customer communication.

- **Thruaudit** | www.thruaudit.com

Led the end-to-end development and launch of a web console for THRU Solutions clients, enabling real-time access to sales reports, inventory levels, and customer interaction data. Built with a secure authentication system, a sleek and intuitive interface, efficient API integrations for dynamic data retrieval, CSV export functionality, and a modern, responsive table design.