

Alex Weakland

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SKILLS

FRONT END DEVELOPMENT | JavaScript - React - TailwindCSS - TypeScript - CSS - HTML - Vite - UI/UX Design - ASP.NET Core
BACK END DEVELOPMENT | C++ - Python - Linux - Node.js - REST APIs - AWS - Raspberry Pi - QT - QT Creator - Java
MISCELLANEOUS | Next.js - SQL - Git - SVN - DevOps - SEO Optimization - Solidity - Smart Contract Development - Web3 - ERC721A
SOFT SKILLS | Rapidly Adapt & Master New Tech - Project Leadership & Management - Customer Engagement - Deliver Results

EXPERIENCE

The Wittern Group, Clive IA — Senior Software Engineer

JANUARY 2023 - PRESENT

Led New Product from Concept to Production: Directed the development and launch of a new automated dispensing solution, bridging traditional vending with modern micro-markets. Managed the full lifecycle from concept to deployment, with thousands of units now in the field. Consolidated 12 production branches into one unified system, saving significant time and cost across development and manufacturing. Continue to drive modernization efforts that optimize environments and infrastructure company wide.

Primary Developer and Implementer: Oversaw all aspects of software development and hardware integration, including database management with SQL, API design and integration, payment flow implementation, accessibility improvements, and UI/UX design. Utilized Python and C++ to develop and deliver solutions that enhanced operational efficiency and supported product innovation across multiple projects.

Mentorship and Methodology Excellence: Trained and mentored new engineers, advocating for best practices like pair programming and agile methodologies. These efforts boosted team collaboration, increased project efficiency, and fostered a culture of continuous improvement in development processes.

Achieved Early Product Release: Consistently met deadlines and project goals ensuring high-quality code and optimal project timelines. Delivered key products ahead of schedule in a fast-paced environment, consistently achieving early product releases.

The Wittern Group, Clive IA — Software Engineer

APRIL 2021 - JANUARY 2023

Demonstrated Leadership in Multiple High-Stakes Projects: Spearheaded a critical customer project by quickly mastering the necessary code and technology, closing an expertise gap, and delivering the project successfully. This led to my assignment on an internal initiative to develop and integrate new technology into our proprietary firmware for competitive micro-market solutions.

Lead Developer for Key Projects: Led software enhancements across all modern vending solutions, resolving critical bugs, validating functionality, and ensuring reliable software performance. Brought new ideas to the table based on feedback from customers, suppliers, and operators, and oversaw documentation to optimize workflows, ensuring alignment with business objectives and stakeholder needs.

Balanced Multiple Responsibilities: Designed and implemented seamless UI features, developed APIs, and integrated critical functionalities to improve operational efficiency. Successfully delivered multiple projects ahead of schedule during staff shortages, ensuring smooth integration and maintaining high software performance.

The Wittern Group, Clive IA— Jr. Software Engineer

MAY 2020 - APRIL 2021

Rapid Adaptation and Problem Resolution: Quickly mastered new technologies (QT C++, SQL, C#, Python, .NET ASP CORE) to address key project challenges. Developed critical Python scripts for locker dispensing functionality and contributed to API development for seamless backend communication. Continuously improved essential project functionalities on both the front and back end.

Delivered Custom UI and Payment Features: Built custom UIs and tailored functionality for modern vending systems in C++. Implemented offline capabilities and new payment methods, ensuring seamless API communication with customer backend systems. These improvements enhanced accessibility, user experience, and operational efficiency.

Collaborative Improvement: Enhanced testing and development workflows, improving defect detection and resolution processes, leading to more efficient project execution and better communication between teams.

Des Moines IA— Software Engineer Intern

AUG 2019

Development and Optimization: Led SEO efforts by developing on-site body content, meta descriptions, and page titles while designing and implementing streamlined UI enhancements. Improved user experience by developing and designing an optimized internal site search feature, significantly enhancing search efficiency and functionality.

Optimized Unit Testing for Improved Code Quality: Led the enhancement of unit testing protocols using PHP, resulting in better code reliability, maintainability, and quicker identification of potential issues.

EDUCATION

Iowa State University, Ames Iowa — Bachelor of Science: Computer Engineering

MAY 2016 - MAY 2020

PROJECTS

Healing Ways — React, Next.js, TailwindCSS, Vite

Redesigned a therapist website for full mobile responsiveness and improved accessibility. Added prominent Client Portal and Contact Us buttons, plus a Meet Our Team section with photos, contact info, and “About Me” links. Enhanced navigation and UI for a better user experience, with plans to integrate a CMS for easy content updates and future scaling to other small businesses.

iMiller — React, Web3.js, Solidity

Built and deployed a secure ERC-721A smart contract enabling crypto payments and NFT product claims. Created a React storefront powered by Ethers.js to link physical clothing purchases to digital assets, streamlining blockchain-based e-commerce for a seamless user experience.

Chrome Extension for Shopify Automation — JavaScript, HTML, APIs

Developed a Chrome extension to auto-fill credit card and form fields across Shopify checkout pages. Used MutationObservers to handle dynamically loaded elements and ensured cross-origin compatibility, allowing seamless, one-click checkouts across multiple stores.

INTERESTS

Traveling - Music - Fashion -
Food - Movies - Gaming