

Alex Weakland

SKILLS

FRONT END DEVELOPMENT | JavaScript - React - TailwindCSS - TypeScript - CSS - HTML - Vite - UI/UX Design

BACK END DEVELOPMENT | C++ - Python - Java - Linux - Node.js - REST APIs - AWS - Raspberry Pi - QT - QT Creator

MISCELLANEOUS | Next.js - SQL - Git - SVN - DevOps - SEO Optimization - Solidity - Smart Contract Development - Web3 - ERC721A

SOFT SKILLS | Quickly Adapt & Master New Tech - Project Leadership & Management - Proactive Customer Engagement - Deliver Results - Ensuring High Development Standards

EXPERIENCE

The Wittern Group, Clive IA — Senior Software Engineer

JANUARY 2023 - PRESENT | Project Management, Python, C++, SQL, QT, UI Design, Payment Flow. Methodology Excellence

Led New Product from Concept to Production: Directed the development and successful launch of an innovative automated dispensing solution, bridging the gap between traditional vending machines and modern micro-markets. Managed the full lifecycle from concept to production, with thousands of these units now actively deployed in the field, making a lasting impact on the industry. Led the consolidation of 12 production branches into one unified system, resulting in substantial time and cost savings in both development and manufacturing. I continue to lead our ongoing technology modernization efforts, optimizing project environments across the organization.

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, particularly during staff shortages.

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 by applying best development practices, 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 | Project Leadership, Software Resolution, Efficient Task Handling, Python, APIs, C++, C, SQL

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 Under Tight Staffing: 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 | Python, C++, SQL, QT, Code Resolution, Software Testing + Resolution, UI Design, API Integration

Rapid Adaptation and Problem Resolution in Key Projects: Quickly mastered new technologies to address challenges in key projects. Developed critical Python scripts for locker dispensing functionality and contributed to API development for seamless backend communication. Continuously improved essential project functionalities.

Surpassed Customer Expectations: Developed a fully custom UI and tailored functionality for our modern vending machines. Implemented offline capabilities and integrating new payment methods for improved customer accessibility. These improvements ensured seamless API communication between the customers backend systems and our platform at all times, resulting in a superior user experience and improved operational efficiency.

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

Des Moines IA— Software Engineer Intern

JUNE 2019 - AUG 2019 | PHP, JavaScript, Unit Testing, SEO Strategies, UI Design, Python, Feature Enhancement

Web 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.

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EDUCATION

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

MAY 2016 - MAY 2020

PROJECTS

Healing Ways — React.js, Next.js, TailwindCSS, Vite Revamped a non-mobile-friendly therapist website using React + TailwindCSS to enhance accessibility and user experience. Key updates included prominently placed "Client Portal" and "Contact Us" buttons, and a "Meet Our Team" section for easy therapist access with photos, contact info, and links to their "About Me" pages. Implemented design improvements for better navigation and functionality. Plans include adding a CMS for content updates and color customization, with future plans to scale the solution for other small businesses at an affordable cost.

iMiller — React, Web3.js, Solidity Developed and deployed a secure ERC721A Solidity smart contract to enable crypto payments for product claims and purchases. Built a React.js storefront integrated with Ethers.js, linking clothing purchases to NFTs, streamlining e-commerce with blockchain technology for a seamless user experience.

Chrome Extension for Shopify Automation — JavaScript, HTML, Chrome Extension APIs, and DOM manipulation Developed a Chrome extension to automate auto filling credit card and form fields on Shopify checkout pages. Used MutationObservers for dynamic elements and ensured cross-origin compatibility. Stored user profiles for seamless autofill across multiple stores, streamlining the checkout process.

INTERESTS

Traveling - Music - Fashion - NFTs - Food - Gaming