Ross Crane *Full-Stack Developer*

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Profile

As a dedicated software engineer, I thrive at the intersection of problem-solving, coding, and creativity, with a strong emphasis on clear and agile communication and collaboration with cross-functional teams. My approach not only involves dissecting intricate challenges into manageable tasks but also identifying key deliverables to maximize value to the customer, seamlessly integrating technical prowess with interpersonal acumen.

Skills

Agile Software Development | **CI/CD Principles** | **Python** | **Zig** (Novice) | **JavaScript (JS)** | **TypeScript**

Angular | **React.Js** | **Redux** | **CSS** | **HTML** | **Node.Js** | **Express.Js** | **Git** | **DevOps** | **SQL** | **MongoDB**

Professional Experience

2020 – present
Remote

Owner and Full-Stack Developer
Better Than Coal Inc.
- **Founded and operated a continuously profitable cryptocurrency mining venture,** demonstrating strategic foresight in the dynamic digital currency market. Utilized Python for automated system monitoring and management, ensuring optimal mining efficiency and reliability.
- **Developed Monitoring Solutions:** Crafted custom monitoring and management tools using Python, enabling real-time tracking of mining performance and energy consumption. This proactive approach minimized downtime to 0.17% and maximized profitability.
- **Enhanced User Interaction:** Leveraged JavaScript to create an intuitive user interface for real-time mining data visualization. This innovation provided myself and other investors with accessible, up-to-date insights into mining operations, fostering transparency and engagement.

2023 – present
Remote

Full-Stack Developer
11th Step Journey
- **Developed a full-stack daily reflection web application** to encourage personal introspection with 11 questions.
- **Front-End Development:** Crafted a responsive user interface using React, enhancing user engagement through Toastify for seamless real-time notifications.
- **Back-End Architecture:** Engineered a secure and scalable back-end system with Node.js, Express, and Mongoose, focusing on seamless API integration, robust user authentication via JWT, and efficient data handling to support a dynamic user experience.
- **Data Management:** Utilized MongoDB Atlas for comprehensive data storage solutions, managing user profiles, authentication tokens, and detailed response records, ensuring user data integrity and privacy.
- **Real-Time Interaction:** Integrated Socket.io to facilitate real-time communication, enabling live sharing and feedback on reflections.

Technologies Used: React, TypeScript, Node.js, Express, MongoDB, JWT, Vite and Socket.IO

2023 – 2023
Denver, CO

Full-Stack Developer
BreakItDown
- **Led BreakItDown refactoring,** transitioning to TypeScript to enhance type safety and productivity.
- **Overhauled back-end** with Node.js/Express for scalable, maintainable architecture.

- **Revitalized front-end** using React and Tailwind CSS, improving responsiveness and UX.
- **Implemented Jest and React Testing Library** for comprehensive testing and reliability.
- **Improved code quality** by enforcing clean code principles, boosting collaboration and ease of future enhancements.

Technologies: TypeScript, Node.js, Express, React, Tailwind CSS, MongoDB, Mongoose, Jest and React Testing Library.

2022 – 2023 Broomfield, CO	**Behavioral Health Technician** *Denver Recovery Center*

- **Automated data transfer** to "Mondays" by Google with Python, boosting efficiency and reducing errors.
- **Developed a client portal** with JavaScript, HTML, and CSS, cutting missed appointments by 19%.

2017 – 2021 Boca Raton, FL	**Associate Store Manager** *Casper*

- **Advanced from entry level to Associate Store Manager** at Casper, leading a team of 10.
- **Developed an inventory management system** using Python, reducing staff needs by 4%.
- **Crafted custom Salesforce dashboards** using JavaScript for improved data management and customer service.
- **Created performance tracking dashboard** for enhanced strategic decision-making.

Projects

AI Food Finder ⊘

https://ai-food-finder-client.vercel.app/

- **Developed AI Food Finder,** a personalized meal recommendation web application, leveraging React, Node.js, Express, MongoDB, and OpenAI API for dynamic suggestions based on user preferences.
- **Engineered a secure authentication system using Clerk** and integrated robust data storage with Atlas MongoDB, leading both front-end and back-end development for a responsive UI and efficient server operations.

Tech Stack: React, Vite, JavaScript, CSS, Express, Node.js, Mongoose, MongoDB, Clerk, Vercel, Heroku, OpenAI API.

Digital Business Card ⊘

https://precious-choux-134043.netlify.app/

- **Designed and developed a digital business card** to enhance networking in the digital age, refining my skills in CSS, HTML, and JS, and showcasing my ability to merge design with functional web development.

Wireless Split Ergonomic Keyboard ⊘

- **Circuit Design and Production:** Utilized KiCad to design custom circuit boards tailored to the ergonomic requirements of the keyboard, demonstrating precision in electrical engineering and design.
- **Software Configuration:** Flashed the keyboard with custom C firmware using ZMK, allowing for the creation of a bespoke key layout optimized for efficiency and comfort.

This project highlights versatility across electronic design, software development, and user-centric hardware innovation, culminating in an ergonomic keyboard that marries technology with user comfort.

Education

2023 – 2023	**Software Engineering** *Codeworks*

Skills: React.js · JavaScript · Node.js · AngularJS · Algorithms · Cascading Style Sheets (CSS) · HTML · DevOps · Express.js · Front-End Development · Back-End Web Development · Git · GitHub · jQuery · MongoDB · MVC · SQL · Scrum

2009 – 2010	**High School Diploma** *Laurel Springs School*