

James Crews

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SKILLS

Languages: Typescript, Javascript, HTML, CSS, SQL, C#

Technologies: React, Node, Postgres, Material UI, Jest, GraphQL, Git, Selenium, NUnit, tRPC, AWS

WORK EXPERIENCE

Orum

Remote

Software Engineer

April 2022 – April 2024

Tech Stack: React, Node, Typescript, Koa, Jest, MUI, GCP

- Developed a targeted calling feature utilizing **React** that improved representatives' preparation by fetching new information about the target prospect from external sources and resulting in a **10%** increase in booked meetings.
- Designed and implemented a robust **WebSocket** service in **Typescript** to efficiently deliver **500k+** real-time updates daily, enabling users to track the progression of their dialing sessions.
- Designed a dynamic subscription implementation in **Typescript** and **Postgres**. This system enabled seamless additions/updates of tiers, and allowed more than the original four tiers; all while ensuring backwards compatibility with legacy subscriptions.
- Revamped the **Front End** architecture by migrating legacy code to **React** and executing a complete UI redesign using **Material UI**. This resulted in a noticeable improvement in performance and user satisfaction evident by a **100%** reduction of laggy UIs.
- Constantly worked in an **agile team** with other developers, product managers and **UI/UX designers**.

Schweitzer Engineering Laboratories

Lynnwood, WA

Associate Software Engineer

October 2020 - April 2022

Tech Stack: React, C# (ASP.NET), GraphQL, Typescript, Selenium, NUnit

- Worked with **UI/UX designers** from design to implementation of **20+ new UIs**, improving user's workflows.
- Implemented a new edit session feature that persists user's changes, allowing them to navigate between projects without having to save.
- Created **10+ API** endpoints as well as optimized the speed of existing implementations.
- Contributed key **React** components to a shared internal library, streamlining development and making all software feel connected.
- Each new feature had been tested using **NUnit** and **Jest** for unit tests and **Selenium** for E2E tests.

Process Solutions INC

Stanwood, WA

Control System Engineer

April 2018 – October 2020.

- Created a project generation tool using **C#** to generate **80%** of PLC logic, resulting in a **20-30 hour** reduction in development time.
- Re-architected all HMI **UIs** to be templated based, resulting in a significant reduction in development time and reducing errors.

PERSONAL PROJECTS

BG Tracker

Tech Stack: React, Node, tRPC, Postgres, Vercel, AWS

bg-tracker.com

- Developed a website to monitor sales to multiple buying groups and track associated credit card rewards earned.

Chess AI

jcrews253.github.io/chess/

- Website where you can play chess against an AI that uses a Min-Max algorithm to determine moves based on the other player's input.

EDUCATION

Washington State University

Pullman, WA

BS in Mechanical Engineering (GPA: 3.8)

December 2017