

# James Crews

Associate Software Engineer

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## SKILLS

ReactJS

Typescript

C#

GraphQL

Material UI

CI/CD

git

.NET core

NUnit

SpecFlow

## WORK EXPERIENCE

### Associate Software Engineer (Full Stack)

Schweitzer Engineering Laboratories

10/2020 - Present

SEL specializes in creating digital products and systems that protect, control, and automate power systems around the world

*Achievements/Tasks*

- Collaborated with UX team to implement dozens of new UIs that improve user's workflows.
- Implemented new edit session feature that persists user's changes, allowing them to navigate between projects without having to save.
- Created tens of new API endpoints as well as improved the speed of existing ones.
- Contributed reusable React components to an internal library shared across the company.
- Wrote extensive tests covering each new feature being implemented.

### Control Systems Engineer

Process Solutions

04/2018 - 10/2020

Design Control Systems for packaging of consumables in the food and beverage industry.

Stanwood, WA

*Achievements/Tasks*

- Created a tool in C# that generates 80% of PLC logic for our most common project types.
- Redesigned all Wonderware HMI UIs to be object based resulting in significant reduction in development time.
- Completed high profile projects which opened more opportunities for company growth.

## PERSONAL PROJECTS

Vinyl Discord Bot (11/2021) 📄

- Discord bot that takes song requests and plays them in the requesting user's voice channel.

Chess AI (08/2020) 📄

- Chess AI that uses the Min-Max game algorithm to determine its moves.
- Player pieces highlight possible moves when selected.

Path Finding Visualizer (07/2020) 📄

- Full stack react app with node backend that animates famous path finding algorithms.

Sorting Visualizer (06/2020) 📄

- React app that animates array sorting algorithms including merge sort, heap sort, and quick sort.

## EDUCATION

### B.S. Mechanical Engineering

Washington State University

08/2015 - 12/2017

3.8

### A.A.S. Mechanical Engineering

Green River Community College

09/2013 - 06/2015

3.5