# James Crews

## Software Engineer

I am a self-taught software engineer with a background in both front-end and back-end development. I love programming new ideas and solving complex problems.

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## SKILLS

`C#` `ReactJS` `Typescript` `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 on a team of engineers to execute user interface enhancements.
- Implemented new full stack features to make end users workflow's more efficient.
- Created reusable React components that were added to a library shared across the company.
- Developed new API endpoints as well as improved speed and reliability of existing ones.
- Write comprehensive tests covering every new feature that is implemented.

### Control Systems Engineer
Process Solutions

*04/2018 - 10/2020*      *Stanwood, WA*

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

*Achievements/Tasks*

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

## PERSONAL PROJECTS

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

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

Sorting Visualizer
- React app that animates various 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*