



Work Experience

Aurora Solar - Software Developer

Jan - Aug 2023

- Contributed to the whole migration of the Aurora CAD 3D Design Software spanning 2 quarters in the **React, Typescript,** and **Ruby on Rails** tech stack
- Led test coverage migration, transitioning **50+** tests in **two sprints**, fortifying software quality and robustness
- Directed end-to-end feature development, orchestrating multi-developer collaboration and expanding **MobX** state management capabilities
- Collaborated with product managers, and designers to launch user-centric features, consistently receiving positive customer engagement over two quarters
- Developed an interactive system within the CAD application using **GraphQL**, enhancing user control over AI Roof tasks

Miovision - Software Developer

May - Aug 2022

- Developed a next-generation portable video recorder and vehicle detection system with TypeScript
- Independently implemented a front-facing queue-based recorder scheduler in **Angular**, with backend **REST API** calls with **Node.Js**
- Used **UNIX Shell Scripting** to automate the collection of all internal debug logs, speeding up QA testing and debugging

Ford - Software Developer

Sep - Dec 2021

- Developed **React** Profiler to pinpoint and resolve unwanted re-renders, driving a **15%** increase in UI responsiveness and enhancing the user experience
- Boosted test coverage by 20% through extensive Jest testing for feature team

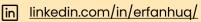
University of Waterloo - Full Stack Developer Jan - Aug 2021

Spearheaded the end-to-end development of two web applications using Vue,
 NodeJS and MySQL with a custom PHP API for real-time data integration

Projects

Clay - 3D Game Engine

- Built and designed an open-source 3D graphics engine with movement capabilities from scratch using **C++**
- Implemented **Object-Oriented Programming** principles and linear algebra to simulate movement within a 3D space
- Created client-facing API to abstract user-inputted objects to eventually project and create 2D rasterizations





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Skills

Languages

JavaScript PHP
Typescript SQL
HTML MATLAB
CSS C/C++
Python Java

Technologies

React NodeJS
React Native Firebase
Vue MongoDB
Angular Express
TailwindCSS MQTT
Flask GStreamer
Yarn NumPy

Tools

Yarn NPM

OpenCV Git
VisualStudio SOLIDWORKS
JIRA AutoCAD
Slack Figma

Pandas

Education

University of Waterloo

2019 - 2024

- BASc in Mechatronics Engineering
- 4A Mechatronics Engineering

Relevant Courses

- Image Processing
- Co-operative and Adaptive Algorithms
- Data Structures and Algorithms
- · Linear Algebra
- Audited course: Machine Learning with Python
- Audited course: LinkedIn Learning DevOps with AWS