

# Aron Saengchan

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## EDUCATION

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### University of Calgary, Schulich School of Engineering

May 2021 – Apr. 2022

*M.Eng. in Software Engineering*

Calgary, AB

- **Cumulative GPA:** 4.0/4.0
- **Coursework:** Software Design & Architecture (OOP), Databases, Data Structures & Algorithms, Software Reliability & Testing

### University of Calgary, Schulich School of Engineering

Sep. 2014 – Dec. 2019

*B.Sc. in Mechanical Engineering with Distinction (Minor in Mechatronics Engineering)*

Calgary, AB

- **Cumulative GPA:** 3.6/4.0

## EXPERIENCE

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### Arcurve

May 2022 – present

*Software Developer*

Calgary, AB

- Contributing towards the ongoing development and enhancement of the Shaw.ca website for Rogers Communications, a platform that serves over 275,000 visitors and processes over 13,000 transactions per month
- Utilizing React and Node.js to create new features defined by various business groups and resolve continuous defects found in QA
- Leading new initiatives including the development of a custom map to navigate a complex network of 100,000+ wi-fi hotspots using the Google Maps API and a form builder to dynamically create customized form templates using the Formik form library
- Employing Adobe Analytics data to monitor user behaviour, identifying strategies to increase customer retention and overall sales
- Applying unit, integration, and UI testing using Jest, React Testing Library, Playwright, and Storybook to ensure proper component functionality and maintain high code coverage

### Laboratory of Engineering Materials – University of Calgary

May 2019 – Feb. 2021

*Research Assistant (NSERC Undergraduate Student Research Award recipient)*

Calgary, AB

- Led two studies investigating topics on fabrication methods and mechanical properties of carbon fibre composite materials
- Developed specialized G-code algorithms using MATLAB scripts to fabricate 3D printed specimens for mechanical testing
- Analyzed mechanical testing data to optimize parameters influencing the material's strength, improving its performance by 93.1%
- Built a functional GUI using Python and tkinter on a Raspberry Pi to control the operations of a filament pultruder device

### Jacobs Engineering

May 2017 – May 2018

*Engineering Intern*

Toronto, ON

- Provided project management, business development, and engineering design support for a variety of ongoing water and transportation infrastructure projects throughout Canada

## PROJECTS

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### Enverus OpenInvoice RFX Application (Capstone Project)

- A full stack web application that serves to connect buyers and suppliers for services in the oil and gas industry
- Utilizes Angular to construct a platform for buyers to create responsive form templates with detailed sections and award suppliers based on a set of customized criteria
- Connects to a RESTful API using Kotlin and Spring Boot to effectively query and save form data in a PostgreSQL database

### Investment Portfolio Dashboard [🔗](#)

- A web application designed for users to manage their financial portfolio and keep track of personal investments in real time
- Developed with React and Firebase with authentication, providing the ability for users to add, update, and delete assets as needed

## SKILLS

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**Languages:** Java, Kotlin, Python, C, C++, C#, JavaScript, TypeScript, HTML, CSS, MySQL, PostgreSQL

**Technologies:** React, Angular, Redux, Node.js, ASP.NET Core, Spring Boot, Jest, React Testing Library, JUnit, Playwright

**Tools:** Git, GitLab, Docker, Jira, Confluence, Bitbucket, Contentful

## VOLUNTEERING

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### Canada Learning Code

Mar. 2023 – present

*Mentor*

Calgary, AB

- Assisting with interactive workshops aimed to teach students the fundamentals of programming and software development