

Aron Saengchan

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EDUCATION

University of Calgary, Schulich School of Engineering

May 2021 – Apr. 2022

M.Eng. in Software Engineering

Calgary, AB

- **Cumulative GPA:** 4.0/4.0
- **Relevant Coursework:** Software Design & Architecture, 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

Calgary, AB

- Minor in Mechatronics Engineering and Internship Program
- **Cumulative GPA:** 3.6/4.0

EXPERIENCE

Arcurve Inc.

May 2022 – present

Software Developer

Calgary, AB

- Contributing towards the front-end development of a large-scale customer facing website for a major telecommunications client
- Utilizing React and Redux to create new features in meeting business requirements and resolve continuous defects found in QA
- Developing new components including a custom map to navigate a complex network of wi-fi hotspots using the Google Maps API and a comprehensive form to collect accessibility feedback from customers using the Formik form library
- Employing unit and integration testing using Jest, React Testing Library, and Playwright to ensure correct 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

Enverus OpenInvoice RFx Platform (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 keep track of their personal investments and individual assets in real-time
- Developed with React and Firebase (with authentication), providing the ability for user to add, update, and delete assets as needed

Discord Virtual Assistant Bot

- An automated bot written in Python that can be added to any Discord server for users to interact with
- Provides a variety of information gathered from various APIs such as time, weather, music recommendations, and hockey scores

SKILLS

Languages: Java, Kotlin, Python, C, C++, Node.js, JavaScript, TypeScript, HTML, CSS, MySQL, PostgreSQL

Frameworks/Libraries: React, Angular, Redux, Spring Boot, Jest, React Testing Library, JUnit, Playwright, Bootstrap

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