

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 (Minor in Mechatronics Engineering)

Calgary, AB

- **Cumulative GPA:** 3.6/4.0

EXPERIENCE

Arcurve

May 2022 – present

Software Developer

Calgary, AB

Enverus (Capstone Project)

Jan. 2022 – Apr. 2022

Software Developer Intern

Calgary, AB

- Developed a full stack web application to provide a platform for connecting buyers and suppliers in the oil and gas industry
- Utilized TypeScript with the Angular framework to construct responsive forms that connect to a RESTful API built using Kotlin, Spring Boot, and a PostgreSQL database
- Followed the scrum agile framework to progressively develop and effectively monitor the application

Laboratory of Engineering Materials – University of Calgary

May 2019 – Feb. 2021

NSERC Research Assistant

Calgary, AB

- Led two studies investigating topics on fabrication methods and mechanical properties of carbon fibre composite materials
- Developed complex G-code algorithms using MATLAB scripts to fabricate 3D printed specimens for mechanical testing
- Analyzed mechanical testing data to find trends that characterized the strength of material, improving its performance by 93.1%

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

Veterinary Medicine Web Application [↗](#)

- A full stack web application for the U of C Veterinary School of Medicine to help the staff manage the daily operations of their clinic
- Developed on ReactJS with routes to add, monitor, and update registered animals using an API created on Java and Spring Boot

Dog Breed Image Classifier [↗](#)

- Applied both deep learning and AutoML techniques in classifying a set of dog images, achieving a validation accuracy of 89.9%
- Applied ensemble learning techniques by combining the features map of the best ResNet50 and VGG16 CNN models

Student Course Registration System [↗](#)

- A GUI that emulates a student registration system utilizing Java Swing and an MVC architecture
- Designed with an interactive interface with different windows to effectively add, remove, and search for student courses

SKILLS

Languages: Java, Kotlin, Python, C, C++, MATLAB, JavaScript, TypeScript, HTML, CSS, SQL (MySQL, PostgreSQL)

Frameworks: React, Angular, Spring Boot, JUnit, Bootstrap

Tools: Git, GitLab, Docker, Arduino, Jira, Figma