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
- **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

Arcurve May 2022 – present
Software Developer Calgary, AB
- Contributing towards the frontend development of a large-scale customer facing website for Rogers Communications that serves over 275,000 visitors and processes over 13,000 transactions per month
- Utilizing React and Redux 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

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 user to add, update, and delete assets as needed

SKILLS

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

Canada Learning Code Mar. 2023 – present
Mentor Calgary, AB
- Assisting with interactive workshops aimed to teach students the fundamentals of programming and software development