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

Intermediate Software Developer Apr. 2025 – present
atVenu / *Ruby on Rails, React, React Native, PostgreSQL, GraphQL, CouchDB, Docker* Calgary, AB

Software Developer May 2022 – Apr. 2025
Arcurve / *React, Node.js, Express, Playwright, Contentful* Calgary, AB
- Supported development and enhancements of Shaw.ca for Rogers Communications, a platform serving 275,000+ monthly visitors
- Led priority initiatives including the conversion and migration of 50+ Handlebars and jQuery templates to functional React components, improving the overall application performance by ~24% in support of each production release
- Implemented new features 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
- Utilized Adobe Analytics data to monitor user behaviour, identifying strategies to increase customer engagement and overall sales
- Applied unit, integration, and UI testing to ensure proper component functionality while maintaining a high code coverage of >80%

Research Assistant (NSERC Undergraduate Student Research Award recipient) May 2019 – Feb. 2021
Laboratory of Engineering Materials – University of Calgary 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 pultrusion device

Engineering Intern May 2017 – May 2018
Jacobs 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 RFx Application (Capstone Project) / *Angular, Kotlin, Spring Boot, PostgreSQL, Docker*
- Developed a full-stack web application that serves to connect buyers and suppliers for services in the oil and gas industry
- Constructed a responsive interface from Figma wireframes to create a platform for buyers to build detailed form templates and award suppliers based on a set of custom criteria
- Built a REST API to efficiently handle queries and storing of form data in a relational database hosted on Amazon Aurora

Basketball League API / *.NET, SQL Server, Docker*
- Designed a REST API using ASP.NET Core to manage a basketball league, providing endpoints for querying and updating statistical data, including player performance, team standings, and game results
- Utilized Entity Framework Core to manage complex relationships between player, team, and game entities within the database

SKILLS

Languages: Java, Kotlin, Python, Ruby, C, C++, C#, JavaScript, TypeScript, HTML, CSS, SQL, GraphQL
Technologies: React, Angular, Redux, Node.js, Express, jQuery, ASP.NET Core, Ruby on Rails, Jest, Playwright, Storybook
Tools: Git, GitHub, GitLab, Docker, Jira, Confluence, Bitbucket, Contentful