

## Education

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### University of Calgary

2022-2026

- Bachelors of science in computer science
- Completed Data Structures, Algorithm and Software engineering related courses

## Experience

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### Tech Start UCalgary

2022-2023

#### Junior Software Developer/Member

- Selected through stringent criteria as one of 30 distinguished members of Tech Start UCalgary, undertook the development of responsive front-end features using TypeScript, JavaScript, HTML, and CSS, contributing to the club's innovative software project.
- Acquired in-depth knowledge of the product development cycle and prototyping through practical training and real-world experience, honed fundamental JavaScript and React skills with the support of TechStart's Development Team.
- Resolved a critical XSS vulnerability, reinforcing system security to prevent potential data breaches.

## Projects

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### Self Checkout Station Java

2022-2023

- Developed a Java-based self-checkout station, integrating multiple payment methods including debit, credit, and cryptocurrency.
- Engineered and implemented object-oriented design patterns, focusing on inheritance and use-case fulfillment.
- Executed comprehensive JUnit tests to validate method functionality and system reliability.
- Documented and reported on identified bugs, outlining their impact on abstract classes and critical system features.

### CyberHire React, HTML, CSS

2022-Present

<https://github.com/techstartucalgary/CyberHire>

- Contributing to the development and implementation of CyberHire - a TechStart Club-supported startup aimed at revolutionizing the job application process through the use of ReactJS, Material UI for frontend and FastAPI, PostgreSQL for backend.
- Acquired fundamental knowledge in front-end development and skills in API handling, which enhanced website functionality. Maintained a balance between technical proficiency and design principles, resulting in a 60% increase in personal productivity within the third week of work.
- Overcame CyberHire's data privacy and security challenges by implementing encryption and secure storage, using AWS EC2 and RDS platforms. Presented the startup's vision to established companies including Arcurve, Pason, and Galatea Technologies, receiving positive feedback and incorporating suggestions for further enhancement.

### Raspberry Pi C, Assembly A64

2019-2020

- Architected and coded a bare-metal device driver for Raspberry Pi, encompassing fundamental components such as the system clock, latching mechanisms, and GPIO access.
- Leveraged the custom device driver to create a responsive, four-tiered Snake game, integrating graphics and value pack features.
- Implemented video programming on the Raspberry Pi, employing extensive multithreading, data structures, and rigorous testing protocols for optimal performance.

## Skills

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- Languages: Java, JavaScript, C, HTML, CSS
- Research, Successfully delivering projects to completion
- Self-awareness and Ability to receive feedback

## Extra Curricular

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- Other Clubs: University Chess Club, Tech Start, Code for YYC
- Future plans : Undergraduate Research
- Managed: Wordpress for aakargroup.ca, shopify for indiansnackk.com and earthyminded.com