

Athul Rajagopal

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github.com/rajagoat | linkedin.com/in/rajagoat

Programming Languages: **C, C++, Java, JavaScript**

Dedicated undergraduate student with experience coding for non-profit organizations. Passionate about designing and implementing innovative technological solutions to real world challenges.

EDUCATION

University of Calgary

Double Major - B.Sc in Software Engineering and B.Comm (GPA: 3.56)

Calgary, AB

Graduating May 2024

- Awards: Dean's List, President's Admission Scholarship
- Coursework: Database Management Systems (A), Software Requirements Engineering (A), Principles of Software Development (A-)

VOLUNTEER EXPERIENCE

CalgaryToSpace

Software Developer

Calgary, AB

October 2022 - Present

- Selected as one of 6 out of 39 applicants to develop mission-critical software for Calgary's first student-built satellite, based on technical skills and passion for space
- Creating a real time operating system using **C** and **FreeRTOS** for satellite control with an **STM32** microcontroller
- Working with several serial communication technologies including **UART**, **I2C**, and **SPI**

Code the Change YYC

VP Technology

Calgary, AB

October 2020 - June 2022

- Designed and developed websites for 2 non profit organizations using **Figma**, **React**, **TypeScript**, and **Firebase**.
- Optimized 500+ lines of code to efficiently handle 529 separate customer orders for a fundraising event.
- Improved project workflows by 33% through implementing pair programming sessions, minimally scoped commits, and test-driven development.

SUNIA

Program Coordinator

Edmonton, AB

November 2018 - October 2022

- Collaborated with 13 fellow volunteers to deliver United Nations related educational content to 100+ students each summer.
- Directed the setup and takedown of 24 tables, 60+ chairs, and 200+ small items throughout a period of 2 weeks, using adaptive planning and continual improvement to reduce the time taken by 1 hour.

- Refactored mission and vision statements by cutting out 70% of extraneous material and focusing on student experience.

WORK EXPERIENCE

Kumon Canada

Centre Assistant

Calgary, AB

May 2021 - August 2022

- Increased program progression rate by 20% by guiding students through mathematical concepts well beyond their grade level.
- Maximized efficiency of marking student worksheets by using simple and scalable techniques, resulting in an additional 3 pages marked per minute.
- Maintained full capacity of 30 students an hour through effective communication with students, parents, coworkers, and management.

PROJECTS

Blue Nile Sport

January 2022

- Created a news website covering African soccer tournaments using **React**, **Next.js** and **Netlify CMS**, and deployed on **Netlify** (link: bluenilesport.com).

Cleanr

November 2022

- Built a full-stack application for Earth Day Canada using **MongoDB**, **Node**, **Express**, **React**, **Next.js**, and **TailwindCSS** to connect volunteers, farmers, and food banks via gleaning opportunities.
- Earned second place Canada-wide at Morgan Stanley's Code To Give Hackathon, as the only fully virtual team out of 9 teams.

SKILLS

Programming

C, C++, Java, JavaScript, TypeScript, SQL, NoSQL, Node, Express, REST APIs, React, Next.js, TailwindCSS, YAML

Tools

Linux commands & distros, Git, VS Code, Azure, Google Cloud Platform, Postman, Microsoft Office