Athul Rajagopal

403-471-3565 | athul.rajagopal@ucalgary.ca | linkedin.com/in/rajagoat | github.com/rajagoat | athulrajagopal.dev

EDUCATION

University of Calgary — Sep. 2019 – May 2025
Bachelor of Science in Software Engineering (Combined) — *Calgary, AB*

University of Calgary — Sep. 2019 – May 2025
Bachelor of Commerce in Business Analytics (Combined) — *Calgary, AB*

EXPERIENCE

Software Developer Intern — Sep. 2023 - Aug. 2024
SMART Technologies — *Calgary, AB*
- Refactored a word-wrapping algorithm using **TypeScript**, **Vue.js**, and **Jest**, reducing dynamic text formatting time by 90%.
- Identified and patched an unauthorized access vulnerability, improving end-user security.
- Optimized **Mixpanel** metrics flows, reducing data event collection errors by 30%.
- Developed a feature for importing editable PDFs and PowerPoints, increasing content accessibility for 2M+ users.

Software Developer (Volunteer) — Oct. 2022 - Apr. 2023
CalgaryToSpace — *Calgary, AB*
- Developed mission-critical software for Calgary's first student-built satellite, selected from 39 applicants.
- Programmed a communication module for an STM32 microcontroller using **C**, improving subsystem communication and data transmission reliability.
- Implemented UART, I2C, and SPI protocols to ensure smooth data flow between satellite components.

VP Technology (Volunteer) — Oct. 2020 - June 2022
Code the Change YYC — *Calgary, AB*
- Designed and launched websites for two non-profits using **Figma**, **React**, **TypeScript**, and **Firebase**, boosting user engagement.
- Optimized client app search/filter functionality, reducing query response times by 60%.
- Improved project workflow efficiency by 33% through pair programming and test-driven development.

PROJECTS

Elevate | *Next.js, React, TypeScript, Rust, Docker* — Sep. 2024 – Apr. 2025
- Developed a full-stack application that leverages generative AI to create interactive teaching materials.
- Presented to the U of C Engineering Design Fair in April, with sponsorship from SMART Technologies.

Blue Nile Sport | *Next.js, React, Netlify CMS, Netlify* — Jan. 2022
- Created a news website covering African soccer tournaments.

Gleanr | *MongoDB, Express, React, Node.js, Next.js, Tailwind* — Nov. 2022
- Built a full-stack application for Earth Day Canada 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.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, TypeScript, Java, Python, SQL, R, HTML/CSS
Frameworks: React, Vue, Node.js, Next.js, Material-UI
Developer Tools: Git, Docker, Linux, VS Code, Microsoft Azure, Jira, Confluence, Postman, Figma, Slack