

Athul Rajagopal

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Technical Skills

Languages: TypeScript, JavaScript, Java

Developer Tools: Azure DevOps, Git, Claude Code, Jira, Postman, Figma, UML

Libraries/Frameworks: React, Vue.js, Node.js, Next.js, Jest

Work Experience

SMART Technologies

Calgary, AB

Junior Software Engineer

Sep 2025 – Present

- Led frontend implementation of an AI-powered content generation feature, supporting **6,700+** generated lessons to date.
- Designed an editable AI content workflow by structuring LLM-generated output into reusable **Vue** components, driving **60%** of users to modify generated content.
- Modernized frontend architecture by migrating **20+** files from Options API to Composition API, converting legacy **JavaScript to TypeScript**, and increasing unit test coverage by **25%**.
- Introduced experimentation infrastructure using **Statsig** to A/B test onboarding flows, enabling data-driven PM decisions.

Software Developer Intern

Sep 2023 – Aug 2024

- Shipped **6+** UI enhancements by translating **Figma** designs into **Vue + TypeScript** components and iterating with designers and PMs to improve UX for **70K+ monthly active users**.
- Refactored a monolithic file-import pipeline into a modular import service, reducing import-related bugs by **35%** and improving analytics observability.
- Implemented a word-wrapping algorithm for a custom text editor, using **UML** to model text flow and achieving **60%** faster rendering on large documents.

Projects

Elevate | Poster

Next.js | React | TypeScript | Rust

- Developed a full-stack AI application that generates interactive teaching activities from user prompts, using a **Next.js + TypeScript** frontend integrated with an LLM-backed **Rust API**.
- Deployed **30+** AI-generated activities across 5 schools in North America, engaging **150+** students in active learning and saving educators hours of manual content creation time.
- Presented at the University of Calgary Engineering Design Fair (Apr 2025), with industry sponsorship from SMART Technologies.

Gleanr | Source Code

MongoDB | Express | React | Node.js

- Built a full-stack (**MERN**) 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 (Nov 2022), as the only fully remote team out of 9 teams.

Education

University of Calgary

Calgary, AB

BSc in Software Engineering & BCom in Business Analytics (Combined)

Sep 2019 – Jun 2025

Leadership

VP Technology (Volunteer) @ Code the Change YYC | Website

Oct 2020 – Jun 2022

- Spearheaded a student-run initiative connecting students with tech-driven volunteer projects, providing hands-on experience in software development.
- Mentored student teams delivering projects for clients, using pair programming and code reviews to ensure timely delivery and maintain strong technical quality.