

**Vraj Shah**

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Hiring Team

AlterBiota

**Subject:** Application for **Junior Full Stack Developer Co-op**

Dear Alex Hanmore,

I'm excited to apply for the Junior Full Stack Developer Co-op position at alterbiota. With a background in backend development, recent experience working with cloud-native architectures, and an ongoing master's in applied computer science at Dalhousie University, I'm eager to bring my skills into a forward-thinking, clean-tech environment like yours—where sustainability and innovation go hand-in-hand.

At Simform Solutions, I worked as a Software Engineer for two years, where I optimized REST APIs, improved deployment pipelines with GitHub Actions and Docker, and contributed to scalable microservices using Kubernetes. One of my proudest moments was reducing deployment time by 50% by automating CI/CD workflows—proof that I love simplifying complex things and speeding up processes where it counts.

Even though I've specialized more on the backend, I've also worked on frontend stacks using ReactJS and Angular and built full-stack apps from the ground up during my academic and personal projects. For example, in my **ServiceHub** project, I developed both the frontend (ReactJS) and backend (Spring Boot), implemented REST APIs, and ensured the app was modular, scalable, and responsive.

What excites me most about alterbiota is your mission to decarbonize the concrete industry using cutting-edge digital technologies. That kind of purposeful impact aligns deeply with my values. I'm the type of developer who thrives in environments without a set playbook—I love diving into ambiguous problems, figuring things out, and building things that matter.

I'd love the chance to contribute to your internal data platforms and customer-facing portals, applying my skills in Python, testing frameworks like PyTest and JUnit, and version control with Git. I'm quick to learn new tools, I communicate clearly in collaborative environments, and I genuinely enjoy working across the stack—whether it's building out REST APIs or tuning up a React component.

Thank you for considering my application. I'd be thrilled to chat further and learn how I can be part of your team driving real-world, sustainable change through software.

Sincerely,  
Vraj Shah