# Abhinav Badesha

badesha.dev | abhinav@badesha.dev | linkedin.com/in/abhib792 | github.com/Orbito7

## Technical Skills

- **Languages:** Java, Python, TypeScript, JavaScript, C, C++, SQL (T-SQL)
- **Cloud & Infrastructure:** Cloudflare Workers, Docker, TrueNAS, ZFS, Bash, SSH, Tailscale, VPN, Linux
- **DevOps & Systems:** Git/GitHub, monitoring & alerting, serverless APIs, GitHub Actions, CI/CD, Docker Compose
- **Testing:** pytest, JUnit, Mocha/Chai, test-driven development, code review
- **Frameworks & Web:** React, Node.js, Express, Firebase, Firestore, HTML, CSS

## Education

**University of British Columbia** Vancouver, BC

*Bachelor of Science in Computer Science, Artificial Intelligence (Fourth Year)* *Expected May 2028*

**Relevant Coursework:** Computer Networking; Algorithms and Data Structures; Software Engineering; Algorithms Design and Analysis; Computer Hardware and Operating Systems; Software Construction; Statistics; Probability

## Technical Experience

**LMS Reinforcing Steel Group** Surrey, BC

*AI Engineer Co-op* *Sep 2026 – Present*

- Developed integrations for an internal LLM agent platform (LangGraph, FastAPI, Next.js, Azure) that lets staff search company documents via hybrid vector + keyword RAG and query company data in plain language.
- Co-developed a read-only MCP server exposing an ERP's SQL database to AI agents, adding entity-lookup tools and blocking credential columns behind a SQL guard that rejects writes and unbounded scans.
- Hardened the agent's ERP query tool by validating LLM-generated criteria against each screen's live form schema, rejecting malformed model output before execution.
- Wrote pytest tests test-first for each integration, with GitHub Actions running the suite on every push.

**BuzzBox Vending Inc.** | **Live Demo** Surrey, BC

*Full-Stack Web Developer* *Jan 2026 – Present*

- Built and maintain a responsive multi-page company website supporting venue partnerships, franchise inquiries, and customer workflows; attracted 800+ unique visitors within the first month of launch.
- Built support, franchise-inquiry and contact forms on Cloudflare Worker APIs with input validation, honeypot spam protection, and email delivery through Resend.

## Technical Projects

**Jobhub: Job Application Pipeline** | **Case Study** *Jul 2026 – Present*

*Python, Flask, React, TypeScript, SQLite, Docker, Claude Code, LaTeX*

- Built a poller that tracks postings from 190+ company job boards (Greenhouse, Lever, Ashby, Workday) and the SimplifyJobs feed into SQLite, with regex filters and Discord webhook alerts shared with 10 friends.
- Built a mobile dashboard (Flask API, React, TypeScript) where one tap queues a headless Claude Code agent that tailors a LaTeX resume and cover letter to the posting and returns compiled PDFs.
- Sandboxed the agent with tool deny rules protecting the master resume, prompts and tracker, and a worker with timeouts, process-group kills and PDF backup/restore so failed runs never overwrite good output.
- Deployed with Docker Compose on a home server over Tailscale; covered by 340+ pytest and 170+ JS tests.

**Vantra** | **Live Demo** *Apr 2026 – Present*

*React, Vite, Supabase (Postgres, Auth, Edge Functions), Deno, Tailwind, jsPDF, Cloudflare*

- Built a multi-tenant property management SaaS for landlords to track rent, expenses, owner payouts, and invoicing for $25k+/month in rent across 14 properties for 3 beta users.
- Built a Gmail OAuth + Edge Function pipeline parsing Interac e-Transfers and auto-matching 15 of 19 imported transfers (79%) to tenants.
- Enforced per-user isolation via Postgres RLS across 9 tables with AES-GCM-encrypted OAuth tokens.

**24/7 Home Lab Server** | **Case Study** *Feb 2023 – Present*

*TrueNAS, Docker, Tailscale, Uptime Kuma, Immich, Navidrome, Open WebUI*

- Deploy and maintain 8+ containerized services with VPN-secured remote access across 6+ devices for 4–6 daily users at 99%+ availability.
- Implemented monitoring + alerting with 60s health checks using Uptime Kuma and automated Telegram notifications.

**Munchscene (Hackathon)** | **Live Demo** *Feb 2026 – Mar 2026*

*React, TypeScript, Node.js, Express, Firebase, Google Places API, OpenRouter*

- Ranked nearby restaurants from the Google Places API by fit with a group's combined dietary needs and locations, with live sync for rooms of up to 10 users using Firebase Firestore.