

Vishal Venkatakumar

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Professional Summary

Aspiring Software Developer with internship experience at SAP and a strong foundation in full-stack web development. Built and deployed secure, interactive apps using React, Express.js, and MySQL. Skilled in debugging, API integration, and delivering scalable solutions through both academic and real-world projects.

Education

Simon Fraser University, Burnaby, BC
Bachelor of Science, Computing Science

Sep. 2019-Feb. 2025

Skills

- Languages & Frameworks:** Python, Java, C++, JavaScript, TypeScript, React, Express.js, SQL
- Web & Backend:** REST APIs, JWT Auth, MySQL, Socket Programming, Node.js, Vite, Leaflet.js, CI/CD
- Tools & Practices:** Git, Postman, Pandas, Scikit-learn, Multithreading, Agile, Android Studio

Work Experience

Product Support Intern (Netweaver Core – Upgrades)

September 2023-May 2024

SAP

- Troubleshooted and resolved **Very High (production-down)** issues in distributed **SAP NetWeaver** systems for **Fortune 500 clients**, minimizing financial loss (up to **\$500K/day**) by coordinating with **cross-functional teams**, delivering critical patches, and restoring systems to operational health.
- Conducted **root cause analysis** on upgrade failures by analysing **ABAP code**, configuration parameters, and system logs; delivered **manual corrections and SAP Notes**, enhancing system stability and upgrade reliability.
- Authored and published **technical knowledge articles** (KBAs) in collaboration with **Senior Engineers and Support Coaches**, streamlining issue documentation, improving support workflows, and reducing incoming support case volume.

Project Experience

AI-Powered Email Responder

July 2025 - Present

- Developed a full-stack email management platform that integrates with **Gmail OAuth2** to fetch, display, and manage inboxes from **multiple connected email accounts** in a single unified interface.
- Implemented a custom AI-powered email reply system where users select a thread, provide a prompt, and generate **personalized, context-aware** responses using a Groq-hosted, **OpenAI-compatible API** for LLM inference.
- Designed a **Redis-backed background job queue** to handle asynchronous Gmail synchronization and AI-inference requests, improving response latency by **~30%** during stress tests.
- Designed a **highly scalable backend** with **Express + Prisma ORM**, featuring optimized queries, structured logging (Winston).

Fitness Tracker Web App

December 2024-February 2025

- Developed a full-stack fitness tracking web app using **React-Vite**, **Express.js**, and **MySQL**, allowing users to visualize body composition changes over time with real-time filtering.
- Implemented **bcrypt-based authentication** and **Express session handling**, ensuring secure access and adherence to modern web security best practices.
- Optimized backend performance using **connection pooling** and **query tuning**, reducing latency and improving responsiveness for data-intensive operations.
- Configured continuous deployment to Railway, leveraging its **automated container build pipeline**.