# BHAVNOOR SAROYA

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## Skills

**Languages:** TypeScript, JavaScript, Go, Rust, Python, Elixir, Java, Kotlin, C#, C++, PHP, SQL, Bash

**Infrastructure & DevOps:** Linux (Ubuntu, Debian, Alpine), Docker, Podman, Kubernetes, AWS, WireGuard, Tailscale/Headscale, CI/CD

**Frameworks:** React, Next.js, Node.js, React Native, Expo, Flutter, Phoenix/LiveView, Ruby on Rails, Spring, .NET, .NET Orleans, Express

**Databases & Data:** PostgreSQL, MySQL, MariaDB, Oracle, SQL Server, Redis, SQL, ETL, data warehousing, Streamlit

**Networking & Security:** TCP/IP, HTTP/HTTPS, TLS, DNS, routing/NAT, VPN/mesh, proxies, load balancing, WireGuard

**Mobile & Device Management:** Android, AOSP, Samsung One UI, MDM, Microsoft Intune, Samsung Knox, Google MDM/AMAPI

**Tools & Practices:** Git, REST APIs, system integration, Agile, Jira, CI/CD, production support

**Testing:** RSpec, Playwright, Selenium, Jest, Vitest, unit/integration testing

## Experience

**Software Engineer / Vancouver Regional Manager** | *Byte Camp* Jan 2024 - Present

- Build and operate production full-stack web, registration, and mobile applications used by more than 2,000 monthly users, working across TypeScript, React, Next.js, Node.js, PHP, and React Native/Expo/Flutter.
- Own infrastructure for more than 300 Linux laptops, including provisioning, automated deployment, remote updates and recovery, shell automation, and a WireGuard mesh spanning hundreds of devices.
- Operate containerized internal services on Ubuntu with Docker, Podman, Kubernetes, and AWS, covering deployment, monitoring, and production support.
- Diagnosed a silent write-through cache failure that left database writes unpersisted; recovered the affected changes and fixed the root cause to prevent recurrence.
- Moved historical MySQL registration data back to Summer 2016 into a PostgreSQL analytical warehouse and built Streamlit dashboards for enrollment, regions, program mix, booking curves, and forecasting.
- Build REST APIs and integrations across internal and external services, including Stripe payment flows, and work across MySQL, PostgreSQL, Oracle, and SQL Server.
- Serve as Vancouver regional manager, covering recruiting, onboarding, staff coordination, delegation, curriculum development, and program delivery.

**Software Systems Developer** | *Reva Software Group* Jan 2023 - Dec 2023

- Built Java APIs and Spring integrations connecting ServiceNow with Box for secure file transfer and enterprise content-management workflows.
- Developed Documentum D2 product collections and integrations supporting knowledge transfer and onboarding workflows.
- Worked with Kotlin, JavaScript, and Spring in established enterprise systems, integrating with content-management platforms rather than building exclusively greenfield applications.

**President** | *BCIT Computing Club* Jan 2025 - May 2026

- Led technical events and hackathons for 100–200 participants, including Hack the Break 2026 and HTTP Hacks 2025.
- Built Phoenix LiveView event infrastructure, designed technical challenges and CTFs, and documented AWS EC2 hosting.

## Projects

**SpeedDB — Distributed Key-Value Store** | *BCIT* Jan 2026 - Oct 2026

- Designed a replicated, conflict-free key-value store in Go and Rust with eventual consistency, node coordination, and failure recovery; tested tens of thousands of writes across 50+ distributed machines.
- Benchmarked distributed performance against PostgreSQL and evaluated replication, consistency, and fault-tolerance tradeoffs.
- **Technologies:** Go, Rust, CR-SQLite, Tokio, Goroutines, Fly.io, WireGuard, Linux, Podman

**Speech-to-Speech Voice Agent** | *BCIT* Nov 2026

- Built an end-to-end speech-to-speech voice agent in C#/.NET with classifiers and intent-processing logic, deployed under a 1 GB RAM constraint.
- Connected the voice pipeline to a 4G cellular network through Asterisk telephony integration.
- **Technologies:** C#, .NET, .NET Orleans, Asterisk, 4G telephony, voice processing

**Linux Fleet & Custom Distribution** | *Byte Camp* Mar 2025 - Present

- Built a custom Debian-based Linux distribution with fleet enrollment, unattended provisioning, remote management, disk encryption (LUKS), device wipe, and automated updates across 300+ laptops.
- Integrated a built-in WireGuard mesh VPN and Kubernetes/AWS-hosted internal services for secure remote administration, troubleshooting, and recovery.
- **Technologies:** Go, Rust, Debian, WireGuard, Podman, systemd, LUKS, GRUB, Subiquity, AWS, Kubernetes

**ELD, Dispatch & MDM Platform** | *Commercial Transportation*

- Built a commercial transportation platform spanning ELD compliance, driver pre-trip inspections, vehicle and trip tracking, dispatch and CRM integrations (iCABBI, TaxiCharger), and automated fleet reporting.
- Developed a custom Android MDM with enrolment, policy enforcement, remote configuration, AOSP system-image control, Samsung One UI integration, and WireGuard connectivity, backed by Node.js REST APIs and a MySQL schema.
- **Technologies:** Android, AOSP, Samsung One UI, MDM, WireGuard, Node.js, REST APIs, MySQL, iCABBI, TaxiCharger, Stripe, Shopify

**Analytics Warehouse & Dashboards** | *Byte Camp*

- Designed a PostgreSQL dimensional warehouse from historical MySQL registration data back to Summer 2016, with program, school, region, snapshot, and final-enrollment fact tables.
- Built Streamlit dashboards for enrollment, regions, program types, weeks, recreation centres, booking curves, and forecasting; analyzed 193 programs at a 48.5% average fill rate in 2026.
- **Technologies:** PostgreSQL, MySQL, SQL, Python, Streamlit, ETL, data warehousing

## Education

**BSc Applied Computer Science — Database Option** | *BCIT* Dec 2026

**CST Diploma — Programming Paradigms Option** | *BCIT* | Distinction, Co-op Dec 2024