

Puneet Grewal

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EDUCATION

University of Victoria

Bachelor of Science in Computer Science, Minor in Business

Victoria, BC

Jan. 2020 – Nov 2024

- Relevant coursework: Software Development Methods, Database Systems, Operating Systems, Networks

EXPERIENCE

Full-Stack Software Developer

Mar. 2026 – Present

The Racket Lab

Victoria, BC

- Founded the company and built its platform solo at theracketlab.ca (TypeScript, Next.js, PostgreSQL)
- Shipped the storefront, five-step order flow, payment matching, and audited inventory ledger end to end
- Gated every merge on typecheck, lint, 803 tests, and build against Vercel preview deployments
- Ran production solo: 7 zero-downtime schema migrations with post-apply privilege and constraint checks
- Traced a silent notification outage to a decommissioned carrier gateway and added a regression test
- Wrote the operator runbook, build specs with definition-of-done checklists, and an incident log
- Enforced TOTP MFA on every admin route and zero-policy row-level security across all 8 tables

Operations and Systems Coordinator

June 2025 – Feb. 2026

Math4Me Victoria

Victoria, BC

- Built a SvelteKit/PostgreSQL enrollment platform, replacing 10+ Google Sheets and cutting data entry by 50%
- Automated client SMS communications via the RingCentral API, cutting manual follow-up time by 40%
- Ran operations across 3 campuses for 75+ students, building Apps Script tools for attendance and reporting

Software Development and Research Co-op

Sep. 2023 – Apr. 2024

Lantronix

Vancouver, BC

- Worked in Agile sprint cycles, writing and executing 75+ TestRail test cases for new features
- Troubleshoot TCP/IP connectivity issues between test devices using ping, traceroute, and tcpdump
- Scripted 15 reproducible PowerShell network tests (bridges/VLANs) with documented steps for diagnostics
- Created a Python ticket parser to flag obsolete attachments, freeing over 500GB on an internal platform

Embedded Software Engineer Co-op

Sep. 2022 – Apr. 2023

Lantronix

Vancouver, BC

- Worked extensively with adb shell to extract logs and debug device behavior during development
- Measured network performance with iPerf and added pass/fail thresholds that caught regressions earlier
- Developed 25+ Python and Bash scripts to automate repetitive testing tasks in Windows and Linux
- Mentored 2 incoming co-op students and authored a troubleshooting guide adopted as reference material

PROJECTS

Tennis Video Tracker & Editor | *Python, OpenCV, YOLO, FFmpeg, Chart.js*

- Built a YOLO and OpenCV pipeline to detect serves and automatically trim dead time, cutting footage by 65%
- Added point-by-point logging for rally length, shot type, and outcome, with per-set summaries in Chart.js

Decoration Business Website | *SvelteKit, PostgreSQL, Kubernetes, Tailwind CSS*

- Built a client-facing site with a filterable catalog of 500+ rental props and a PostgreSQL admin dashboard
- Self-hosted and deployed on a personal Kubernetes cluster running on a home Linux server

SKILLS

Languages: TypeScript, JavaScript, Python, SQL (PL/pgSQL), Bash, Java, C

Frameworks: Node.js, Next.js, React, SvelteKit, Tailwind CSS, Zod

Platform & Cloud: PostgreSQL, Supabase, Vercel, Cloudflare, Kubernetes, Linux (Ubuntu)

Practices & Tools: Agile (Scrum), CI/CD, Git, GitHub, Gerrit, Jira, TestRail, Vitest, Selenium

Interests: backcountry trips, racket sports, tennis