

DANTE BERTOLUTTI

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EDUCATION

Bachelor of Computer Information Systems — *Okanagan College, Kelowna BC* Graduated April 2026
Relevant coursework: Algorithms, Database Management, Computer Networks, iOS Development, Systems Analysis & Design

TECHNICAL SKILLS

Languages: Java (8+ yrs), JavaScript, TypeScript, Python, SQL, PL/SQL, Swift, HTML/CSS
Frameworks: React, Next.js, Node.js, NestJS, Laravel, Flask, FastAPI, Prisma, Drizzle, SwiftUI
Databases: PostgreSQL, PostGIS, Oracle, Redis/Valkey — schema design, indexing, query-plan performance tuning
Infrastructure: Linux (Ubuntu/Mint), Docker, Nginx, Cloudflare DNS/Tunnel, WireGuard, UniFi/Ubiquiti, RAID, SSH/SFTP
Enterprise IT: Windows Server, Active Directory, PowerShell, VMware Horizon, Imprivata OneSign, Azure, AWS
Tools: Git/GitHub, CI pipelines, pytest, Vite, XGBoost (project exposure)

EXPERIENCE

MDB Development (Freelance) — *AI-Driven Web Marketing & Web Design* 2023 – Present

- Design, build, and host custom websites and web applications for business clients end to end — from requirements and design through deployment on self-managed Linux servers (Nginx, Docker, Cloudflare DNS with API-driven DDNS, TLS, hardened SSH).
- Deliver AI-driven web marketing for clients, including search engine optimization (SEO), Google Business Profile setup and management, and local search visibility.
- Configured, designed, built, and repaired 50+ custom PCs for clients, covering component selection, assembly, OS installation, and diagnostics.

Interior Health Authority — *Systems Analyst (Student Co-op), Digital Health Team* 2024

- Supported deployment and maintenance projects across the enterprise Microsoft ecosystem, including Active Directory permission-group administration.
- Wrote and updated PowerShell administration scripts; worked with VMware Horizon virtual desktop and Imprivata OneSign single sign-on environments.
- Supported enterprise print infrastructure operations and assisted frontline recovery during the 2024 CrowdStrike outage.

PROJECTS

AllGearNoGame — *Solo Full-Stack Social Platform — Self-Hosted in Production* 2026

- Solely designed and built a security-hardened sports-gear social platform, TypeScript end to end — PostgreSQL 17/PostGIS, NestJS API, Next.js 16/React 19 — plus a native SwiftUI iOS client (~7,400 LOC Swift 6) in a pnpm/Turborepo monorepo (~36,000 LOC total).
- Self-hosts three isolated Docker environments behind an outbound-only Cloudflare Tunnel with zero inbound ports, layered over VLAN isolation, deny-by-default UFW, hardened non-root containers, readiness-gated deploy scripts, and 3-2-1 automated backups.
- Engineered an OWASP-audited security baseline — OAuth 2.0 + PKCE behind a BFF, deny-by-default authorization with server-side ownership checks, CSP/CSRF, rate limiting, supply-chain hardening — and drove hot queries sub-millisecond via EXPLAIN ANALYZE-based index design over ~145k rows.

Canada-wide DBMS Cybersecurity Monitoring — *Capstone Group Project (COSC 416)* 2026

- Designed and tuned the Oracle schema — tables, indexes, views, grants, and verification queries — for a monitoring system analyzing Canada-wide DBMS traffic; project since selected for continued development with RCMP involvement.
- Built the Flask dashboard (traffic analysis, threat intel, performance, infrastructure tabs) plus Oracle export, deploy, and refresh scripts and performance-tuning documentation.

Project Maverick — MarketSight — *Capstone Group Project (COSC 471)* 2026

- Built the predictions experience for an ML stock-prediction platform (FastAPI, XGBoost, React/TypeScript, PostgreSQL) — confidence scoring in the inference API plus the frontend predictions page.
- Parameterized SQL queries against injection, enforced frontend/backend type safety, resolved CI failures, and authored acceptance-test documentation.

Self-Hosted Home Infrastructure — *Personal Project* 2025 – Present

- Designed and operate an enterprise-grade UniFi network (UDMP, PoE switching, 5 APs, 10G backbone) with a 60 TB Synology RAID 6 array and Linux application server.
- Run WireGuard VPN with per-user configs, AdGuard DNS filtering over DoH, and an Nginx reverse proxy fronting four live self-built apps (TrainingQuest, TodoList, GolfTracker, QuickBudget — Next.js, PostgreSQL, Prisma, Redis) hardened with a catch-all 444 default server.