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SOFTWARE DEVELOPER | FULL-STACK & BACKEND ENGINEERING

Computer Programming & Analysis advanced diploma candidate with two software development co-op roles and ongoing remote IT support experience. Build full-stack products, secure business workflows, relational data systems, and AI evaluation tools using TypeScript, React, Next.js, Node.js, Java, and SQL.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, C#, C++, SQL, Bash, HTML, CSS. **Web & Backend:** React, Next.js, Node.js, Express.js, REST APIs, Tailwind CSS, JavaFX. **Data & Infrastructure:** PostgreSQL, MySQL, MongoDB, SQLite, H2, Prisma, Hibernate, Supabase, Docker, Vercel. **AI, Testing & Tools:** OpenRouter, Gemini, GPT-4.1 Mini, HotpotQA, prompt caching, Git, GitHub, Postman, JUnit 5, Maven, Figma, Jira

PROFESSIONAL EXPERIENCE

IT Support Assistant (Remote, Part-time) | BigBigi Ads | San Jose, USA | *Jun 2026 – Present*

- Resolve remote hardware, software, and network issues across 3 support areas, restoring employee access to business-critical systems and reducing disruption.
- Configure and maintain Windows workstations, peripherals, Microsoft 365 applications, and user accounts across 4 core IT support areas.
- Support employee onboarding from initial account provisioning through application installation and workstation readiness, covering 3 setup stages.
- Perform preventive maintenance, troubleshoot recurring connectivity and access issues, and follow secure account-management practices.

Product Developer, Co-op | Huntigox | Ontario, Canada | *Jan 2026 – Apr 2026*

- Built a mobile-first React and Node.js MVP with responsive workflows across 3 device classes: phones, tablets, and desktops.
- Led Figma UI/UX design and reusable component development; initial alpha testing reported a 25% improvement in user retention.
- Integrated REST APIs and custom React hooks to streamline key user journeys, reducing average time-to-action by 15%.
- Collaborated across a remote Agile team to prioritize product improvements using alpha feedback, usability testing, and iterative releases.
- Supported LinkedIn and Instagram launch initiatives, growing the early-access waitlist to 500+ verified student registrations.

Full Stack Developer, Co-op | SkillShift+ | Ontario, Canada | *Apr 2025 – Aug 2025*

- Developed an education platform featuring 35+ structured programs and AI-assisted career-readiness tools.
- Architected Stripe and Supabase B2B subscriptions with multi-tenant entitlements supporting institutional plans of 10 to 100+ seats.
- Built certificate management and AI interview-coaching workflows; reported a 35% increase in student engagement and course completion.
- Optimized PostgreSQL schemas and Prisma queries with indexing and caching, reporting a 40% reduction in database latency on high-concurrency API routes.
- Integrated SSO and role-based institutional access controls, enabling administrators to manage seat entitlements and learner progress.
- Delivered responsive Next.js and Tailwind CSS interfaces and maintained Vercel deployments with reported 99.9% uptime.

PROJECTS

TRACKwo | Freelancer Command Center | Next.js 15, React 19, Prisma, SQLite, Tailwind CSS

- Built a full-stack freelancer operations platform combining client CRM, project/task boards, time tracking, invoicing, and financial reporting in one application, created a KPI dashboard with six-month revenue visualizations, project metrics, and invoice-status summaries to support business decisions.
- Implemented real-time and manual time entries with project-level rollups and CSV export for reporting and reconciliation, Developed itemized invoices with partial-payment handling, automated status tracking, and downloadable PDF generation using pdf-lib. Designed Prisma relational schemas, database migrations, and seed data; integrated email/password authentication and account-recovery workflows.

Maplewood Hotel Management System | Java 21, JavaFX, Hibernate 6, H2, JUnit 5 |

- Engineered an eight-step self-service guest booking kiosk with room selection, date validation, occupancy rules, add-ons, pricing, and confirmation. Supported four room categories and multi-room reservations with live cost calculations, loyalty redemption, and 13% tax estimates.
- Built a staff administration console for reservation search, editing, payments, checkout, waitlists, guest feedback, and loyalty transactions. Implemented BCrypt password hashing, role-aware permissions, failed-login audit records, and manager-restricted operations. Added revenue and occupancy reports with CSV/PDF export, automated waitlist notifications using the Observer pattern, and JUnit unit/integration tests.

AI RESEARCH

Context Engineering for Large Language Models | Team Lead | TypeScript, Node.js, OpenRouter, HotpotQA, Apache Parquet | *In Progress*

- Designed a controlled evaluation framework comparing five context strategies: full context, prompt caching, retrieval-augmented generation, summarization, and hybrid approaches.
- Built a TypeScript CLI experiment runner with structured question/context inputs, model calls, answer parsing, metric calculation, and CSV result logging. Used HotpotQA FullWiki multi-hop questions and Parquet source passages to create repeatable evidence-grounded model evaluations.
- Benchmarked Gemini 2.5 Flash Lite and GPT-4.1 Mini using exact match, token-level F1, citation F1, latency, token usage, cache activity, and estimated API cost. Implemented and tested full-context and prompt-caching experiments, including controlled 10-passage and expanded 30-passage configurations; documented reproducibility and fair-comparison rules.

EDUCATION

Advanced Diploma, Computer Programming & Analysis | Seneca Polytechnic, Toronto, ON | Expected 2026 | CGPA: 3.5

PROFESSIONAL STRENGTHS

Analytical problem-solving • Technical communication • Team leadership • Cross-functional collaboration • Ownership • Agile teamwork • Prioritization • Adaptability • Attention to detail