

PROFESSIONAL SUMMARY

BCIT Computer Information Technology diploma graduate with training across software development, networking, cloud infrastructure, Linux systems and cybersecurity. Most recently worked as the founding engineer on an AI browser-automation product, improving a fixed MiniWoB++ regression set from 73.3% to 95.6% through paired A/B testing and exact McNemar significance testing. Additional work includes an AI-integrated data tool for an industry client, self-hosted infrastructure and two independent businesses. Focused on AI and agent engineering, full-stack development, and QA and test automation.

TECHNICAL SKILLS & COMPETENCIES

AI & Agent Engineering	Browser agents, ReAct loops, DOM and screenshot perception, set-of-marks scanning, accessibility-tree parsing, LLM-as-judge, prompt pipelines, embeddings retrieval, OpenRouter, Claude API, Gemini, Whisper	Evaluation & Testing	Fixed regression sets, paired A/B testing, exact McNemar testing, benchmark harnesses, MiniWoB++, WebVoyager, cost tracking, revert-on-no-win gating, node:test, Vitest, fixture and scenario suites
Browser Automation	Playwright, Chrome DevTools Protocol, Manifest V3 extensions, WebSockets, concurrent browser jobs, deterministic action guards, screenshot receipts	Programming	Python, JavaScript with ES modules, Bash, PowerShell, R, algorithms, data structures, testing and debugging
Web Development	Next.js, React, Node.js, Express, FastAPI, PHP, HTML, CSS, Tailwind CSS, REST APIs, versioned API design, Clerk, Twilio, TLS	Databases	MySQL, PostgreSQL and Supabase, SQLite, Neo4j, NoSQL, SQL, stored procedures, schema design, permissions, backups, indexing, query tuning, phpMyAdmin
Cloud	AWS, Microsoft Azure, Google Cloud Platform, Railway, Vercel, Supabase, Expo/EAS, VPC, VPN, auto-scaling and load balancing	Operating Systems	Linux including Arch, Debian and Red Hat; Windows Server 2022; macOS
Windows Server	Active Directory, DNS, DHCP, Group Policy and user management	Linux Server	Command line, OS hardening, SSH keys, file permissions, log monitoring and backups
Networking	TCP/IP, OSI model, DNS, DHCP, VLANs, NAT, Wi-Fi, Wireshark and troubleshooting	Infrastructure	Docker, Kubernetes, Ansible, TrueNAS, ZFS, Tailscale, CI/CD, infrastructure as code, NAS, Git worktrees, backups and snapshots
Security	Nmap, Metasploit, vulnerability scanning, LAN hardening, log analysis, information assurance, static scanning and attack-surface analysis	Data	Data validation, normalization, visualization, statistics and ETL pipelines
IT Service Management	ITIL service lifecycle, PMBOK project management and IT service delivery	Business Analysis	Requirements gathering, UML, systems design and process modelling
Tools & Platforms	Git, GitHub, WordPress, WooCommerce, web hosting, Twilio, VS Code and phpMyAdmin	Professional Skills	Problem-solving, resourcefulness, coachability, adaptability and effective communication

EDUCATION

British Columbia Institute of Technology <i>Diploma, Computer Information Technology</i>	Vancouver, BC Sep 2024 – Apr 2026
Seaquam Secondary School <i>BC Dogwood Diploma</i>	Delta, BC Sep 2019 – Jun 2024

WORK EXPERIENCE

Anticipation Labs

Vancouver, BC | Jun 2026 – Aug 2026

Founding Engineer — Early-Stage Consumer AI Startup, Hybrid

Product: an assistant that operates inside a user's logged-in browser and reaches users through web, SMS and iOS from one shared backend.

Playwright · Chrome CDP · Manifest V3 · Next.js · React · Node.js · Python · Supabase · Twilio

- Improved a vision-language browser agent from 73.3% to 95.6% on a fixed 45-episode MiniWoB++ set through seven paired A/B experiments with exact McNemar testing; retained three wins, reverted four candidates and added a regression test for every retained change.
- Completed each 45-episode arm on a cost-efficient 32B vision-language model at approximately \$0.12 to \$0.16, producing the gain through perception and control engineering rather than model spend.
- Established a pooled WebVoyager baseline of 16/46 graded outcomes on a fixed 25-task slice and tested three architecture candidates under a hard MiniWoB++ non-regression gate.
- Improved a CAPTCHA-blocked flow from four wasteful failures to four clean human handoffs and recorded the result as an architecture requirement rather than presenting it as a benchmark win.
- Diagnosed transport races, WebSocket fragmentation, hardcoded surface routing and focus-stealing extension behaviour; restored automation in logged-in Chrome through Manifest V3 and CDP with up to three concurrent jobs.
- Designed a versioned /v1 REST API with Clerk authentication and fail-closed adapters for a shared iOS and web backend; supported an iOS screen-by-screen port with 140 tests passing.
- Built an LLM-first Twilio SMS workflow with send budgets, consolidated check-ins, verified-phone binding and one shared job pipeline with browser automation.
- Reworked the Next.js, React and Tailwind dashboard across two breakpoints and two themes while maintaining 291 passing tests, then configured Clerk, Railway, Supabase, Vercel, Expo/EAS and Twilio production services.

Livewire Energy Services Ltd.

Vancouver, BC | Jul 2025 – Sep 2025

Apprentice Electrician — Skilled Trades BC Sponsored Apprenticeship, Contract On-site

- Worked with minimal supervision, learned new technical skills quickly and took on additional responsibility as the placement progressed.
- Completed the three-month term with no missed days or late arrivals while commuting daily from Delta to downtown Vancouver.

Shirmar Construction

Ladner, BC | Jul 2024 – Aug 2024

Construction Labourer

- Managed assigned work with little oversight, resolved equipment issues before delays and was trusted with tools and site responsibilities.

Freelance Web and E-Commerce Services

Delta, BC | Jun 2020 – Oct 2021

Self-Employed

- Ran a client-facing online services business handling transactions and recurring technical requests.
- Managed technical support, payments, order tracking and communication for more than 50 users, grown through direct outreach without an advertising budget.

PROJECTS

Bridge2AI — AI Business Data Analyst

BCIT Industry Project | 2025–2026

Node.js · MySQL · Claude API · Vitest · Twilio

Built an AI-assisted business data query tool for Bridge2AI.ai. Imported .xlsx and .csv datasets into MySQL, translated natural-language requests into SQL, returned formatted tables or raw JSON, and shipped the schema, prompt pipeline, import system, Twilio querying and a 99-test automated suite.

Ariadne Leather — Leathercraft E-Commerce Platform

Aug 2025 – Present | ariadneleather.ca

WordPress · WooCommerce · MySQL · Canada Post API · SMTP · WHC Hosting

Built and operate a leathercraft side business online through a self-managed WordPress and WooCommerce platform. Integrated database administration, payments, live shipping rates, SMTP delivery, automated receipts and reviews while handling hosting, fulfilment and customer operations.

TrueNAS NAS Server

Self-Directed | Ongoing

TrueNAS · ZFS · Linux · Tailscale · Networking

Deployed and maintain a TrueNAS server with ZFS storage and snapshots, file sharing, network services and Tailscale VPN for secure remote access.