

Alex Bepple

SOFTWARE ENGINEER

Richmond, BC. V7C 5R4, Canada

☎ (+1) 778-220-8465 | ✉ axbepp@gmail.com | 📷 AlexMBeppe | 🌐 alex-bepple

Technical Skills

Languages	JavaScript, TypeScript, Python, C++, Java, Bash, Node.js, LaTeX
Frontend	React, Next.js, HTML, CSS, Jest
Backend	Express, Django, REST API, MongoDB, PostgreSQL, Redis, Pytest, Grafana, Sentry, OpenSearch
AWS	CloudWatch, ECS, RDS, Lambda, SQS, Secrets Manager, S3
DevOps	Docker, Kubernetes, Terraform, GitHub Actions, Podman, Nginx
Concepts	CI/CD, On-call Incident Response, Feature Flags (LaunchDarkly), SOC 2, Data Compliance, Distributed Systems, PR Ownership
AI Tooling	MCPs, Cursor, Dev-containers, Agentic Workflows, Subagents, AI Planning

Work Experience

Certn

Vancouver, BC, Canada

SOFTWARE ENGINEER

June. 2023 - May, 2026

- Architected and delivered the Australian Nationally Coordinated Criminal History Check using Python and TypeScript, leading a team of 2 engineers to ship in 2 months against a 3-month deadline and opening APAC as a net-new revenue region by resolving data sovereignty blockers that had prevented market entry.
- Built a Criminal Record Check Observability Tool using AWS CloudWatch that surfaced hidden failures across ~10,000 impacted monthly orders (~\$200K-\$300K revenue at risk), eliminating escalations in 99% of cases and immediately reducing tier-2 support load.
- Reduced CI/CD regression test runtime from 35 to 8 minutes (77% reduction) by parallelizing test execution across three deployment regions using GitHub Actions, recovering an estimated ~\$81K/year in engineering time.
- Engineered a DSAR-compliant Data Deletion pipeline using Django ORM, Redis, and PostgreSQL, processing an initial backlog of ~1.8M records off-hours with zero production disruption and continuous daily execution against a rolling 3-year retention window.
- Contributed to and championed a dev-container setup script that reduced full-stack environment setup from 1 day to under 30 minutes, enabling parallel development across three isolated environments per developer.
- Owned incidents end-to-end across a 30+ service, multi-region AWS environment using CloudWatch and distributed tracing, correlating symptoms and developing permanent root cause fixes across ~100,000 monthly orders in a formal on-call rotation.

Traqspera Technologies

Kamloops, BC, Canada

SOFTWARE DEVELOPMENT INTERNSHIP

May. 2022 - September. 2022

- Built automated unit tests covering 75% of the application, protecting core service reliability across feature release cycles.

Projects

Self-Hosted Media & Network Management Server

Vancouver, BC

PERSONAL DEVELOPMENT PROJECT

February. 2025

- Architected and deployed a self-hosted bare-metal media automation stack on Ubuntu (Libre SBC), integrating Radarr, Sonarr, Prowlarr, and Deluge with full inter-service networking, permissions, and process management for persistent uptime.
- Diagnosed and resolved a disk exhaustion incident causing cascading service failures, restoring full stack including Radarr database recovery from backup.

Bartender Buddy 🍹

Vancouver, BC

BAR RECIPE WEBPAGE

June. 2023

- Built a searchable bar recipe app with Next.js, deployed to GitHub Pages.
- Built to optimize the bartender learning experience from flipping through a physical paper book to instant filtering.
- Improved time to find recipe by 1 minute, streamlining busy service, and lowering novice bartender anxiety that leads to mistakes.

Computer Vision Machine Learning Multi Class Mushroom Classifier

Kamloops, BC

CAPSTONE PROJECT, TRU 2023 ENGINEERING CAPSTONE

April. 2023

- Optimized computer vision classification pipeline from 47 seconds to under 500ms (100x improvement) using parallelized detection algorithms and self-taught ML techniques on Techbrew Robotics datasets.

Education

Thompson Rivers University

Kamloops, BC, Canada

B.ENG. IN SOFTWARE ENGINEERING

Sept. 2018 - April. 2023

- Received the Ken Lepin Excellence Award for having the highest GPA of 3.74 in my graduating class.