

Jermaine Blake, BSc

Software Engineer

(416) 624-4220 | info@jermaineblake.dev | Calgary, AB

LinkedIn: linkedin.com/in/jermaineblake | **GitHub:** github.com/jermzblake | **Portfolio:** jermaineblake.dev

Professional Summary

Full Stack Software Engineer (React, Node.js, AWS) with 5+ years of experience designing and delivering scalable, data-driven, impactful applications. Proven success leading cross-functional Agile teams, building AI-powered systems, and optimizing backend performance on cloud infrastructure. Recognized for innovation, mentorship, and rapid learning in dynamic environments.

Professional Experience

Senior Full Stack Software Engineer | Tech Lead

Mar 2021 - Nov 2025

Black Professionals In Tech Network (BPTN)

BPTN is bridging the network gap between Black talent and career opportunities across North America.

- Led the development and deployment of "Obsidi," a multi-sided enterprise networking platform, designing data flow, caching, and RESTful APIs to support over 85,000 active members.
- Orchestrated the delivery of key roadmap initiatives, exceeding annual engagement targets (250K+) with 95%+ story completion and 2x the expected feature output.
- Collaborated cross-functionally in an Agile environment of 10+ stakeholders across Product, Data, and DevOps teams globally to align business goals with technical strategy, influencing quarterly outcomes.
- Mentored a team of 6 developers and founded a Developer Guild to strengthen code quality and elevate team performance.
- Engineered and refined an AI-driven job matching system leveraging RAG pipelines and vector embeddings, boosting retrieval performance by 1000x.
- Partnered with DevOps and Data teams to refine system architecture and monitoring strategy using Datadog and AWS, sustaining 99%+ uptime.
- Defined and documented architecture standards to ensure maintainability and observability across services.
- Implemented containerized builds with Docker, improving environment parity and reducing deployment failures.
- Joined as first engineer, promoted from Junior → Intermediate → Senior → Tech Lead within 2 years
- **Awarded Employee of the Year** for technical leadership, impact, and Going Above and Beyond!

Tech Stack: Typescript, Node, Koa, PostgreSQL, React, Docker, Redis, AWS

Technical Skills

Languages & Frameworks:

TypeScript, JavaScript (ES6+), Node.js (Koa, Express), React, RESTful APIs

Frontend:

React (Hooks, Context, Suspense), TypeScript, TailwindCSS, Responsive UI/UX, Client-Side Routing

Backend & Services:

Node.js, Koa/Express, PostgreSQL, Redis, Webhooks, Authentication (JWT, OAuth2), Secure Session Management

Cloud & Infrastructure:

AWS (ECS, S3, RDS, CloudWatch), Docker, Kubernetes, Monitoring & Observability (Datadog)

AI & Automation:

Applied NLP (Semantic Search, LLM Integration, Vector Embeddings, RAG Pipelines), AI-powered Workflow Automation

Security & Compliance:

Role-Based Access Control (RBAC), Input Validation, Parameterized Queries, Secure API Design, Familiarity with SOC 2 & OWASP Principles

Collaboration & Dev Practices:

Agile/Scrum, Git/GitHub Flow, Code Reviews, Documentation Standards, Mentorship & Cross-Functional Collaboration, CI-CD pipelines using GitHub Actions

Education & Professional Training

Software Engineering Immersive (Certificate)

General Assembly - 450+ hours, full-time

Sept 2020 - Dec 2020

Bachelor of Science (BSc), Biological Science

University of Guelph

Certifications

AWS Certified Cloud Practitioner