

JERMAINE BLAKE

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PROFESSIONAL SUMMARY

Backend-focused Full-Stack Developer with 5+ years of experience building and scaling cloud-native, multi-tenant SaaS platforms used by tens of thousands of users. Progressed from Junior Engineer to Tech Lead, delivering high-impact production systems and AI-powered features with a focus on performance, reliability, and scalable system design.

PROFESSIONAL EXPERIENCE

Black Professionals in Tech Network (BPTN) — Obsidi Platform

03/2021 – 11/2025

BPTN bridges the network gap between Black talent and career opportunities across North America, operating the Obsidi enterprise networking platform with 85,000+ active members.

Senior Full Stack Software Developer | Tech Lead

06/2022 – 11/2025

- **Awarded Employee of the Year (2024)** for technical leadership and consistent above-and-beyond delivery across platform, infrastructure, and mentorship initiatives.
- **Reduced API request latency by 65% and lowered database load** by designing and deploying Redis caching layers for high-traffic REST endpoints, directly improving platform responsiveness for 85,000+ active members.
- **Boosted retrieval performance by 1000x** by engineering an AI-driven job matching system using RAG pipelines and vector embeddings, connecting candidates to relevant opportunities at scale.
- **Drove 200,000+ platform engagements in FY2025** by leading delivery of the AI-powered peer recommendation system and major platform features, exceeding all annual KPI targets.
- **Mentored 6 developers and reduced code review defects by 40%** by founding a Developer Guild that established code quality standards and tech debt policies, eliminating the entire backlog of high-priority technical debt.
- **Improved user retention** by designing a PostgreSQL-backed session management system with Axios interceptors that auto-refreshed tokens, eliminating session timeouts for all active users.
- **Sustained 99%+ platform uptime** through partnership with DevOps and data teams to refine system architecture and monitoring strategy using Datadog and AWS infrastructure.
- **Implemented Docker-based containerized builds**, reducing deployment failures and aligning dev, test, and prod environments across the engineering lifecycle.
- **Delivered twice the planned features** while maintaining a 95% story completion rate and doubling the annual user engagement target through data-driven sprint planning and disciplined Agile execution.
- **Designed and launched Obsidi Recruit**, a SaaS product enabling recruiters to build Black talent pipelines through AI-powered candidate matching against real hiring criteria, moving Obsidi into the SaaS market (2025).

Intermediate Full Stack Developer

07/2021 – 06/2022

- **Decreased user drop-off by 18% and drove 12% ticket revenue growth** by leading a data-driven UI/UX overhaul of the event registration funnel using Mixpanel telemetry to identify and resolve friction points.

Jr. Software Developer

03/2021 – 07/2021

- **Launched a multi-sided enterprise networking platform** from inception as the first developer on the team, passing all penetration tests with zero high or medium vulnerabilities.

PROJECTS

ResumAid – AI-Powered Resume Optimization Platform

2026

A server-rendered web application that analyzes resume bullet points and matches them to job roles, featuring an evolved, production-ready LinkedIn profile builder.

- Hardened for production-grade deployment with rate-limiting, centralized logging, and strict file sanitization pipelines.
- Engineered HubSpot CRM integration to streamline user data management and tracking workflows.
- Implemented a flexible model-serving architecture leveraging both OpenAI and Ollama for high-performance analysis.
- **Tech Stack:** Bun, Hono (SSR), Docker, OpenAI, Ollama, HubSpot.

[Live](#) | [Source](#)

Agent Zero – Autonomous AI Task Orchestrator

2026

A hybrid multi-tenant system designed to democratize autonomous AI workforces, supporting stateful, long-running agentic workflows capable of complex decision-making and tool-calling with strict data isolation.

- Architected "Split Key" authentication and RLS policies to ensure tenant-level data security and isolation.
- Implemented cyclic graphs with persistent memory to orchestrate complex, multi-step agentic workflows.
- Developed model-agnostic cost guards at the gateway level to control LLM usage and monitor spending.
- **Tech Stack:** Bun, Hono, LangGraph, Supabase (PostgreSQL + pgvector), LiteLLM, Docker.

[System Design](#)

gAIinplan – AI-powered Workout Builder

2026

Built a mobile fitness app that generates custom workout routines tailored to specific user goals and available equipment.

- Eliminated AI hallucinations by anchoring LLM outputs to a verified, pgvector-indexed exercise catalogue via semantic RAG search.
- Engineered a type-safe monorepo with an asynchronous background audit loop for safety constraints and Hono RPC to ensure strict API contract integrity.
- **Tech Stack:** Turborepo, Bun, Hono, Expo, Supabase (Postgres, pgvector, RLS), Mastra, Zod.

Closed Beta | [Code](#)

Do it – Intelligent Task Management

2026

A full-stack task management application built to help individuals organize, track, and complete work efficiently, with dedicated desktop and mobile layouts.

- Built a Kanban-style dashboard with real-time optimistic UI updates and smart caching via TanStack Query, alongside a dedicated mobile view with expandable status sections.
- Engineered a built-in Pomodoro-style focus timer with five selectable work/rest protocols and a persistent floating session panel that survives navigation across the app.
- Implemented full test coverage for forms, guards, hooks, and status-transition logic, alongside built-in query performance monitoring to track and optimize database queries.
- **Tech Stack:** Bun, React, TanStack Router/Query, Shadcn/ui, PostgreSQL, Drizzle ORM, Docker.

[Demo](#) | [Code](#)

TECHNICAL SKILLS

Core Stack: TypeScript, Node.js, React, Bun, Koa, Express, PostgreSQL, TailwindCSS, TanStack Query/Router, Drizzle ORM, Shadcn/ui, HTMX, Expo

Databases & Infra: PostgreSQL, MongoDB, Redis, AWS (ECS, S3, RDS, CloudWatch), Docker, Kubernetes

AI & Data: RAG Pipelines, Vector Embeddings, LLM Integrations, Semantic Search, Mixpanel, Google Analytics, Datadog, Cursor, Github Copilot

Auth & APIs: JWT, OAuth2, RESTful API Design, Secure API Design, Webhooks, RBAC, SSO

Practices: Agile/Scrum, CI/CD (GitHub Actions), Code Reviews, Asana, Figma, Git/GitHub Flow, Vitest

CERTIFICATIONS

AWS Certified Cloud Practitioner • W3Cx: Introduction to Web Accessibility • Docker & Kubernetes: The Practical Guide (2025)

EDUCATION

Bachelor of Science (BSc), Biological Science | University of Guelph

Software Engineering Immersive | General Assembly Toronto (09/2020 – 12/2020)