

Kashawn Brown

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PROFESSIONAL SUMMARY

Full-stack software engineer with 3+ years of experience building and shipping production software across web, cloud, mobile and AI systems. Experienced across the full development lifecycle using TypeScript/Node.js, React/Next.js, Java/Spring Boot, Python, and Go. Delivered live platforms across architecture, APIs, frontend UX, auth, observability, testing, CI/CD, and deployment. Strong in fast-moving, high-ownership environments where shipping quality software, pragmatic decisions, and close feedback loops matter.

TECHNICAL SKILLS

- Languages:** TypeScript, Java, Go, Python, JavaScript, SQL
- Backend:** Fastify, Node.js, Spring Boot, Spring Cloud, FastAPI, Supabase, chi, REST APIs
- AI/LLM Tools:** Claude Code, Codex, OpenAI API, Anthropic API, vLLM
- Frontend:** Next.js, React, React Native, Expo, Tailwind CSS, HTML, CSS
- Cloud/DevOps:** GCP, AWS, Docker, GitHub Actions, CI/CD, Prometheus, Grafana
- Databases:** PostgreSQL, Redis, MongoDB, MySQL, Firebase
- Testing/Quality:** Vitest, JUnit, Mockito, Postman, k6

EXPERIENCE

- AI Model Evaluator**
Outlier AI

Oct 2024 – Present
Remote

 - Evaluated large language model (LLM) outputs across software engineering, reasoning, and structured-data tasks using detailed evaluation frameworks to assess correctness, instruction adherence, and response quality.
 - Analyzed AI-generated code to identify implementation defects, logical errors, hallucinations, and edge-case failures, providing structured technical feedback and improved solutions where applicable.
 - Compared competing model responses, documenting evidence-based recommendations using client-defined quality rubrics and evaluation standards.
 - Selected for reviewer-level quality assurance responsibilities on designated projects, validating evaluator consistency, scoring accuracy, and adherence to project guidelines.
 - Adapted to diverse client evaluation methodologies across multiple AI projects, quickly learning new technical domains, documentation standards, and quality requirements.
- Lead STEM Instructor & Technical Program Coordinator**
African Canadian Christian Network

Jun 2020 – Aug 2024
Scarborough, ON

 - Designed and maintained curriculum for 8+ technical programs covering programming, web development, AI fundamentals, and CAD, creating lesson plans, coding exercises, and project-based learning resources.
 - Built and maintained internal web applications and administrative tools supporting student enrollment, instructor scheduling, curriculum management, and operational workflows.
 - Led technical coordination for summer programs serving 200+ students, managing instructor support, curriculum delivery, and technical troubleshooting.
 - Collaborated with leadership to evaluate program outcomes, iterate on curriculum, and launch new offerings including advanced programming, React, and AI fundamentals.

PROJECTS

- Career-Tracker.ca** | TypeScript, Fastify, Next.js, OpenAI API, PostgreSQL, Prisma, Redis, GCP, OAuth2, JWT
- Built and launched a **live SaaS platform** used by real job seekers, owning the full product end-to-end: backend APIs, frontend UX, AI-powered workflows, cloud deployment, and ongoing iteration.
 - Shipped **5 AI-powered workflows** including: resume analysis, job compatibility, cover letter generation, and more, using structured outputs and successful-run-only billing for predictable AI credit usage.
 - Secured the platform end-to-end with **token-based auth**, rotating sessions, cross-site request protection, **Google OAuth**, and **rate limiting**, built to production security standards.
 - Wrote **integration tests** across 12 modules, instrumented AI runs with timing/token/cost/error analytics, and surfaced usage in admin dashboards; deployed to Cloud Run with **CI/CD** and load tested at **44–47 req/s** with **0% failures**.

TechDrill | *TypeScript, Next.js, Supabase, PostgreSQL, Tailwind CSS, Vercel*

- Developed and deployed a **multi-user technical study platform** with configurable and resumable quizzes, custom collections, bookmarks, personalized study state, and persistent history.
- Designed a database-backed quiz lifecycle with **immutable question/answer snapshots** and **concurrency-safe updates**, preserving completed results even as live questions and collections change.
- Implemented secure multi-user data isolation with Supabase Auth and **PostgreSQL Row Level Security**, enforcing database-side access controls across private collections, bookmarks, preferences, and quiz history.
- Built a **transactional JSON import pipeline** for large question banks, validating content and using **deterministic duplicate/conflict detection** to prevent bad or repeated data from being silently imported.

MicroFlix | *Java, Spring Boot, Spring Cloud, PostgreSQL, AWS, Prometheus, Grafana*

- Designed and built a four-service microservices platform in **Java/Spring Boot**, architected so each service scales and deploys **independently**, enabling production reliability without cross-service bottlenecks.
- Built end-to-end monitoring across all services and used it to identify and fix a critical query bottleneck, improving response time by **~28x** (1.2ms → 0.04ms) through targeted database indexing.
- Eliminated a cascading HTTP request pattern that was multiplying network calls (1+N pattern), reducing browser round trips to 1 and downstream service calls to 2.
- Containerized with multi-stage Dockerfiles and dev/prod Compose overrides; deployed to AWS EC2 with GitHub Actions **CI/CD** ordered behind successful builds.

AI Inference Platform | *Python, FastAPI, vLLM, PostgreSQL, SQLAlchemy, Docker, Prometheus, Grafana, k6, GitHub Actions*

- Built a self-hosted AI inference platform that serves live model requests in **real time** while processing high-volume **batch jobs** in the background, both running from a single deployable system.
- Designed a **PostgreSQL-backed job queue** using row-level locking and per-job failure isolation, ensuring failed jobs never blocked subsequent work while keeping infrastructure intentionally simple.
- Instrumented the system with metrics, structured logs, and request tracing across all components; **load tested** under realistic conditions to validate latency and reliability before deployment.
- Shipped as a reproducible **Docker Compose** stack with **GitHub Actions CI** (ruff, black, pytest) and Alembic migrations.

Shot O'Clock | *React Native, Expo, TypeScript, Supabase, PostgreSQL, Expo Push Notifications*

- Architected a **server-authoritative** game engine for a real-time multiplayer **iOS/Android app**, routing every gameplay action through 15+ guarded backend functions to eliminate client-side cheating and desync by design.
- Built a multi-device countdown timer synced within ~1 second, backed by **server-side phase transitions** that keep the game running even if every client disconnects.
- Shipped a cross-platform **push notification system** alerting players to time-sensitive game events while the app is backgrounded.
- Ran a disciplined **AI-assisted development** workflow across 17+ build phases and wrote 200+ unit tests against core game logic as pure functions, catching regressions before they reached a device.

Circle Accountability | *Go, React Native, Expo, Next.js, PostgreSQL, Clerk, Turborepo, GCP, GitHub Actions, k6*

- Built a cross-platform accountability app for **iOS, Android, and web** from a single codebase, Go backend, Expo mobile, and Next.js web sharing a typed contract layer so all three surfaces stay in sync and ship features together.
- Integrated Clerk for auth with a custom Go middleware layer verifying sessions on every protected request and syncing user identity to a local database without storing credentials, keeping auth and app data cleanly separated.
- Designed a group progress engine tracking each member's check-ins against shared period goals, with per-member targets and snapshot writes that preserve historical completions without affecting active progress.
- Deployed to GCP Cloud Run with Neon serverless Postgres and schema migrations; instrumented with **structured logging, load tested** core endpoints with k6, and automated **CI/CD checks** (go vet, TypeScript typecheck, lint) on every PR.

EDUCATION

University of Western Ontario
B.S. Computer Science

Sep 2018 – Apr 2023
London, ON