

Brayden Blackwell

Senior Software Engineer | Node.js, React, C#, Full Stack

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SUMMARY

Self-taught Senior Software Engineer with 17 years of hands-on development and 10+ years of professional experience. Specializes in modernizing legacy systems, HIPAA-aligned platform engineering, and technical SEO. Expert in Node.js, React, C#/NET, and multi-tenant database architecture. Proven track record of owning end-to-end delivery across backend, frontend, and DevOps — turning complex domain requirements into fast, secure, and maintainable products.

Technical Skills:

Languages: TypeScript, JavaScript, Python, C#, SQL, HTML/CSS

Frameworks/Libraries: React, Next.js, Vue, Svelte, Node.js, Express, Fastify, Hono, Django, tRPC, Tailwind CSS, Framer Motion

Database/ORM: MySQL, PostgreSQL, MongoDB, Drizzle ORM; SQL Optimization

Cloud & DevOps: AWS (EC2, RDS, S3, Lambda, AWS Bedrock), Azure, GCP, Docker, Git/Github, Github Actions CICD, GCR

Technical SEO: Core Web Vitals, schema.org, sitemaps/robots, internal linking, lighthouse

Data/AI & Visualization: Python, TensorFlow, Geospatial Analysis, Recharts, D3

Game Dev: Unity, Godot, Game Design, Physics Systems

PROFESSIONAL EXPERIENCE

Yana Motion Labs

Calgary, AB

2023 - Present

Senior Software Engineer (Contract)

- Rebuilt the company website end-to-end with a modern accessible, performance-first stack
- Designed and deployed AI pipelines to generate biomechanical insights from user data; built internal tooling to operationalize models within clinician workflows under HIPAA-aligned governance (RBAC, encryption, audit logs, PHI segregation)
- Led technical SEO program (Core Web Vitals, schema, sitemaps/robots, internal linking, lighthouse) driving organic growth across 5+ target keywords

DataTrail Corp.

Calgary, AB

Feb 2021 - Jul 2025

Senior Software Engineer

- Engineered the core GIS software interface, architected to handle hundreds of thousands of concurrent requests at 99%+ uptime and is still running stable in production
- Built end-to-end IoT integrations from device firmware through server to UI, aligning hardware data pipelines with a performant React frontend; mentored junior developers on server-side architecture and production deployment best practices
- Modernized legacy .NET/C# and React codebases with targeted refactors; introduced CI/CD pipelines and migrated payment infrastructure from PayPal to Stripe, improving reliability and maintainability
- Reduced change lead time by 35% by expanding automated test coverage across critical GIS microservices

Enviros

Calgary, AB

Jun 2024 - Apr 2025

Senior Software Engineer (Contract)

- Architected a secure multi-tenant MySQL/Drizzle platform with granular RBAC, encryption at rest, and full audit trails for HIPAA-aligned handling of sensitive children's data
- Translated complex clinical requirements into intuitive CANS-aligned interfaces; built analytics dashboards for outcomes, compliance, and trends
- Reduced assessment completion time by 45% and cut reporting from 3+ hours to under 90 minutes through workflow automation and UX improvements — delivered with TDD and zero post-handoff bugs

OnGuard

Calgary, AB

Jun 2016 - Jan 2021

Backend Developer

- Designed and maintained Node.js REST APIs and microservices with automated deployments and robust observability
- Collaborated cross-functionally to integrate third-party services and scale data processing workflows
- Reduced API P95 latency by 20% using caching, query tuning, and async job queues