Brayden Blackwell

Senior Software Engineer | Node.js, React, Legacy Systems Modernization

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SUMMARY

Senior software engineer specializing in modernizing legacy codebases, technical SEO, and scalable, secure platforms. Expert in Node.js , React, and multi-tenant MySQL/Drizzle with a history of improving performance, reliability, and developer velocity. Comfortable owning end-to-end delivery across backend, frontend, and DevOps to turn complex domain needs into fast maintainable products.

Technical Skills:
Languages: TS, JS, 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, optimizing for specific keywords
Data/AI & Visualization: Python, TensorFlow, Geospatial Analysis, Recharts, D3

PROFESSIONAL EXPERIENCE

Yana Motion Labs Calgary, AB
Senior Software Engineer 2023 - Present
- Rebuilt the company website end-to-end with a modern accessible, performance-focused stack
- Designed and deployed AI pipelines to generate biomechanical insights from user data; built internal tools to operationalize models in clinician workflows with HIPAA aligned governance (RBAC, encryption, audit logs, PHI segregation)
- Led technical SEO program (CWV, schema, sitemaps/robots, internal linking, lighthouse) increasing organic traffic for 5+ target keywords

DataTrail Corp Calgary, AB
Senior Software Engineer Feb 2021 - July 2025
- Modernized legacy .NET C# and React Codebases with targeted refactors, modern CI/CD pipelines, setup payment infrastructure through stripe migrating from legacy paypal setup, and improved stability and maintainability
- Delivered device, server, UI features end-to-end, aligning hardware integrations with a performant react frontend. Mentored junior developers on server-side best practices and how to deploy production applications
- Achieved a 35% reduction in lead time for changes by introducing CI/CD pipelines and expanded automated test suites for microservices for GIS services that were necessary to the apps functionality

Enviros Calgary, AB
Senior Software Engineer Jun 2024 - Apr 2025
- Architected secure multi-tenant MySQL/Drizzle with granular RBAC and audit trails for HIPAA-aligned data handling
- Translated clinical requirements into intuitive interfaces that preserve CANS standards; built analytics dashboards for outcomes, compliance, and trends
- Reduced assessment completion time by 45% and cut reporting from 2 hours and 30 minutes through validation, workflow and UX improvements from traditional hand-written reports

OnGuard Calgary, AB
Backend Developer Jun 2016 - Jul 2020
- Designed and maintained Node.js REST/microservices with automated deployments and robust observability
- Collaborated cross-functionality to integrate third-party services and scale data processing workflows
- Reduced API P95 latency by 20% using caching, query tuning, and async job queues

CERTIFICATIONS

- Amazon Web Services DevOps Engineer
- SAIT – Information Systems Security Diploma (In Progress), Calgary, AB 2025 - Present