

ZACHARY BATTEN

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SUMMARY

Software Developer building full-stack, mobile, GIS, and AI applications.

PROJECTS

DwellSmart

Softspark • dwellsmart.ai • April 2026 – Present

- An AI-powered real estate platform for Newfoundland and Labrador, organized as a pnpm monorepo with separate customer-facing and marketing applications plus a reusable shared component library.
- Developed a personalized buyer dashboard that ranks property matches from saved preferences, displays favourites and local market statistics, connects buyers with their assigned realtor, and integrates the Nila AI Assistant for conversational home searches.
- Implemented end-to-end realtor and client workflows including organization-based access control, referral links, branded client invitations, assignment tracking, activity feeds, secure invite claiming, account creation, and AI-guided onboarding in chat.
- Extended a production-ready Cloudflare architecture using Workers, Durable Objects, PostgreSQL, Drizzle ORM, Neon Hyperdrive, KV and R2 storage, with automated NLAR listing synchronization and release checks using TypeScript, Vitest, Playwright, linting, and deployment tasks.

TraverseOps

traverseops.app • May 2026 – Present

- Built a municipal GIS asset management platform for hydrants, sewer mains, manholes, valves, water mains, property boundaries, work orders, inspections, dashboards, analytics, and field operations.
- Implemented Supabase Auth, RBAC, row-level security, organization-scoped records, PostGIS spatial indexes, protected evidence storage, and local/Supabase datastore fallback.
- Developed evidence capture and export workflows using Expo ImagePicker/Camera, FileSystem, Print, Sharing, JSZip, PDF generation, JSON import/export, sanitized filenames, export history, and missing-media fallbacks.
- Built offline sync and deployment tooling with IndexedDB mutation queues, reconnect flushing, sync-state UI, GitHub Pages deployment, GitHub Actions CI/CD, runtime config injection, service-worker caching, and release verification.

EDUCATION

B.Sc., Computer Science

Memorial University of Newfoundland • 2025

INVOLVEMENT

Logistics Lead

Hack Frost NL • 2020-2023

- Led logistics for inaugural and follow-up hackathons, managed weekly goals, coordinated external partners.

Event Coordinator

Computer Science Society • 2020-2023

- Organized workshops, game nights, and student events while contributing to executive planning, event strategy, and community building.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Go, C#, Java, and C++

Frontend & Mobile: React, React Native, Expo, React Router, Vite, Tailwind CSS, HTML/CSS, Capacitor, Progressive Web Apps, Web Components

Backend & APIs: Node.js, Express, Flask, Cloudflare Workers, Durable Objects, REST APIs, WebSockets, OAuth, authentication and third-party APIs.

Databases & Cloud: PostgreSQL, SQLite, MySQL, Supabase, Neon, Drizzle ORM, Firebase, Cloudflare R2, KV and Hyperdrive

AI & Automation: OpenAI and Anthropic APIs, LLM integration, AI agents, prompt engineering, browser extensions, web scraping and data pipelines

Data & Machine Learning: pandas, NumPy, scikit-learn, Seaborn, Jupyter, data cleaning, visualization, classification and model evaluation

Testing & DevOps: Git, GitHub, GitHub Actions, Vitest, Jest, Playwright, ESLint, Prettier, Ruff, Black, mypy, Docker, EAS Build and CI/CD

