

Derrick Bol

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Full-Stack Software Engineer with 8+ years of experience shipping web apps for international, distributed teams. I specialize in Next.js, TypeScript, and Node.js, with a focus on building maintainable front-end architectures and scalable back-end infrastructure. I'm a collaborative builder who thrives in remote environments and delivers production-ready solutions across the full stack.

SKILLS

- **Languages:** TypeScript, JavaScript, Ruby, Python, SQL, HTML5/CSS3
- **Front-end:** Next.js, React, Remix, Vue.js, Tailwind CSS, Vite
- **Back-end:** Node.js, Drizzle ORM, PostgreSQL, Prisma, Firebase, ElasticSearch
- **Testing & Ops:** Vitest, Jest, React Testing Library, Docker, Git

WORK EXPERIENCE

Senior Full-Stack Software Engineer | PropertyFi/Soar Energy 04/2024 - 01/2026

PropertyFi (Lead-Gen Spin-off) | Jan 2025 – Jan 2026

- Shipped 285+ pull requests while architecting backend integrations for four white-labeled brands, building scalable lead capture systems and automated prospect submission pipelines in Node.js.
- Led the migration of 3+ production applications to a new CRM schema; refactored TypeScript API layers and core services to ensure zero downtime and full backward compatibility.
- Engineered automated lead-management workflows using Next.js, including S3 file upload systems and personalized URL tracking for real-time campaign analytics.

Soar Energy (Solar Infrastructure) | Apr 2024 – Jan 2025

- Architected a high-volume lead generation engine using Next.js and TypeScript, delivering a Consumer Direct platform that converted homeowner utility data into actionable solar ROI reports.
- Engineered an Admin and Referral Partner portal centralizing lead management and partner performance tracking for large-scale solar adoption campaigns.
- Led the creation of a door-knocking app for salespeople, enabling field sales teams to capture leads and generate energy-savings reports in real-time.

Senior Full-Stack Software Engineer | Aillio 12/2019 - 03/2024

- Architected the full-stack rebuild of Roast.World, migrating a legacy Ruby codebase to a modern TypeScript, React, and Firebase architecture while maintaining feature parity and data consistency.
- Engineered a multi-app desktop ecosystem (RoasTime) using Electron, Vue.js, and Node.js, implementing a WebSocket-based communication layer between the frontend and the backend control systems.
- Scaled platform search and filtering capabilities by migrating legacy Firebase queries to ElasticSearch, solving performance bottlenecks for high-volume roast data and bean inventory systems.
- Led the development of critical features, including a green bean inventory management system, Cropster data integrations, and an automated extended warranty platform.
- Built a centralized logging and telemetry system to monitor health across the distributed app suite (Electron, Node.js, and Go services), improving debugging efficiency for remote hardware users.
- Mentored and onboarded four international engineers (based in Taiwan and Thailand), enforcing TypeScript best practices, conducting code reviews, and leading feature prioritization as a technical PM.

Full-Stack Software Engineer (Freelance) | Framerly 03/2022 - 06/2023

- Architected a multi-party marketplace payment system using Stripe Connect, implementing automated split-payments, artist onboarding workflows, and secure document uploads for a custom framing platform.

- Engineered "Belizing Payments," a custom FinTech solution that processed over \$100k+ in transactions, enabling local businesses to bypass high banking fees via Stripe.
- Acted as the sole backend engineer to migrate internal accounting and booking processes from manual tracking to a centralized Ruby on Rails and PostgreSQL platform.
- Architected and documented a RESTful API to power the company's first iOS application, collaborating closely with mobile engineers to sync payment flows and booking data.
- Integrated Stripe Elements to build a secure, PCI-compliant checkout experience, managing the full deployment lifecycle on Heroku.

SELECTED PROJECTS

Founder & Full-Stack Developer | breakdown.run | 01/2026 – Present

- **The Problem:** Solves the gap between raw wearable data and actionable race strategy by parsing complex `.fit` files into deep-dive performance metrics for runners and coaches.
- **The Value:** Delivers high-fidelity pacing and heart-rate analysis via a modern Next.js and Drizzle ORM stack, utilizing Playwright for automated E2E testing of diverse GPS data structures.

Founder & Full-Stack Developer | Solevue | 09/2025 – Present

- **The Problem:** Addresses fragmented gear reviews by creating a standardized ecosystem for shoe performance data and community-driven insights for the running industry.
- **The Value:** Empowers runners with data-driven gear choices through a custom Next.js platform optimized for lightning-fast search, SEO, and mobile-first community engagement.

EDUCATION

Master of Science National Tsing Hua University *Taiwan* **08/2018 - 10/2021**
• Major in Information Systems and Applications, Data Science track

Bachelor of Science Galen University *Belize* **08/2014 - 08/2018**
• Major in Computer Science & Minor in Anthropology