

Russell Bloxwich

Senior Fullstack Engineer · Available for remote contracts

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WORK EXPERIENCE

Senior Software Engineer

May 2024 – Present

Coalesce, Remote (USA)

Frontend engineering on a complex local-first data-transformation platform (React, TypeScript, Redux, Antd; originally Firestore-backed, now PostgreSQL). Embedded across teams as a senior IC for new-product direction, architectural decisions, and high-leverage migration and performance work.

- Co-authored the design doc that became a cross-functional skunkworks with VP Engineering and CTO/CPO involvement, working to make CLI and file-based AI integration the product's next surface.
- Built a 2-day POC replacing our paid third-party SQL parser with our own ANTLR-based grammar, demonstrating 3–20× throughput on the production SQL corpus. Architecture and test suite shipped to production.
- Engineered the frontend parallel-cutover from Firestore to PostgreSQL via a new repository abstraction. Shipped seamlessly with zero production incidents and no customer-visible downtime.
- Owned the React performance work for enterprise customer workspaces: cut re-renders by fixing selector subscriptions, moved heavy logic off the main thread, reduced browser memory pressure on large pipelines.

Senior Software Engineer

April 2022 – May 2024

MATTR, Auckland, New Zealand

Developed and maintained a new eventing system, instituted internal eventing libraries and code-generation tooling, optimized Kafka infrastructure costs, and collaborated on a new platform global control-plane management API. Safeguarded code quality as a codeowner.

- Designed and implemented an eventing system to support audit-log requirements for 6 million MAU.
- Developed internal code-generation tooling that reduced development time for new events by 90%.
- Set eventing best practices for the team; mentored 5+ engineers on system design.
- Introduced an API response-caching mechanism for large payloads using Redis, decreasing response times by 95%.

Senior Software Engineer

October 2021 – April 2022

Spidertracks, Auckland, New Zealand · Contract

Extended a JavaScript-based legacy React + Redux application and migrated core pieces of functionality to TypeScript. Deployed new Node.js Express API endpoints to deprecate and expand existing Spring-based endpoints.

Intermediate Software Engineer

May 2021 – October 2021

Fisher Funds, Auckland, New Zealand · Contract

Collaborated on delivering new customer onboarding forms using Gatsby 4 and TypeScript. Mentored a junior engineer in best practices, delivering integration functionality with Mulesoft and Salesforce. Investigated and promoted observability tooling (Dynatrace, Datadog) to enable faster issue resolution and active monitoring.

Intermediate Software Engineer

October 2020 – March 2021

Laminar, Auckland, New Zealand · Contract

Owned the frontend for a market-making financial-services platform for cryptocurrency trading and investment. Expanded backend functionality, integrating with Ethereum through the Web3 SDK.

EDUCATION

Auckland University of Technology · Graduate Diploma, Mathematical, Computer and Information Science (Bachelor equivalent)

SKILLS & OTHER

Tools: TypeScript, React, Redux, Node.js, PostgreSQL, Docker, AWS, REST, Kubernetes, Pulumi, Terraform

Eventing: Kafka, Protobuf, AWS SNS, AWS SQS, MQTT, AWS Lambda, MongoDB, DynamoDB, Event Sourcing

Hackathons: Won the 2025 Web3NZ Hackathon; organised Terrible Ideas Hackathon 2024 & 2025; competed in many more.