

# Russell Bloxwich

## Senior Software Engineer

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### WORK EXPERIENCE

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#### Senior Software Engineer

May 2024 – Present

Coalesce, Remote, USA

Built out new functionality in a complex local-first front-end using React, Typescript, Antd, SCSS, and Firestore. Investigated and resolved redux performance issues, migrated from Firestore to PostgreSQL, and refactored tightly-coupled legacy implementations.

- Facilitated the on-going migration from a tightly coupled Firestore implementation to a microservice architecture.
  - Improved data consistency and data access latency while ensuring zero downtime.
  - Architected the parallel cutover for the data access layer in the front-end.
- Improved front-end react application performance by over 30% for enterprise customers.
- Organised an internal initiative to improve UI standards across legacy components without compromising agility.

#### Senior Software Engineer

April 2022 – May 2024

MATTR, Auckland, New Zealand

Developed and maintained a new eventing system, instituted internal eventing libraries and tooling for code generation, optimized Kafka infrastructure costs, and collaborated on a new platform global control plane management API service. Safe guarded 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 to reduce development time for new events by 90%.
- Championed eventing best practices, mentoring 5+ engineers on system design.
- Introduced an API response caching mechanism for large response payloads using Redis, decreasing API response times by 95%.

#### Senior Software Engineer

October 2021 – April 2022

Spidertracks, Auckland, New Zealand - Contract

Extended the functionality of 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 on-boarding forms using Gatsby 4 and TypeScript. Assisted and mentored a junior engineer in best practices, delivering integration functionality with Mulesoft and Salesforce. Investigated and promoted new and existing observability tools such as Dynatrace & Datadog to enable faster resolution of user issues and enable active monitoring.

#### Intermediate Software Engineer

October 2020 – March 2021

Laminar, Auckland, New Zealand - Contract

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

## EDUCATION

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**Auckland University of Technology**, Auckland, New Zealand

Graduate Diploma — Mathematical, Computer and Information Science (*Bachelor Equivalent*)

## SKILLS & OTHER

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**Tools:** TypeScript, React, Redux, NodeJS, PostgreSQL, Docker, AWS, REST, Kubernetes, Pulumi, Terraform

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

**Hackathons:** Won 2025 Web3nz hackathon, organized Terrible Ideas Hackathon 2025 & 2024, attended more.