

# Jesse Earle

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Senior Fullstack Engineer & Architect with 15+ years of experience architecting and building scalable, data-driven B2B SaaS platforms. Expert in TypeScript, React, and Node.js with a proven history of leading cloud transformations (AWS), implementing monorepo strategies, and delivering robust backend APIs (REST, gRPC).

## Core Competencies

- Languages: TypeScript, JavaScript, Go, Rust, Zig
- Frameworks: React, Node.js, Express
- Architecture: System Design, Microservices, REST & gRPC APIs, Monorepos
- Databases: PostgreSQL, MSSQL, Redis, Elasticsearch
- Cloud & DevOps: AWS, Docker, CI/CD, Vite, SWC, Webpack, Yarn/PNPM

## Professional Experience

### Senior Technology Consultant | ExodusPoint - Contract (07/2021 – Present)

- Architected and delivered a real-time dashboard for monitoring trade executions, providing critical visibility for trading operations and improving risk assessment.
- Drove team-wide adoption of a modern monorepo strategy using NX and PNPM, resulting in a >50% reduction in CI build times and resolving complex dependency conflicts.
- Developed a stress-testing platform applying historical market volatility to live portfolio data for forward-looking risk analysis.
- Built and deployed core internal tools, including a bonus allocation API and calendar scheduling integrations.

*Tech: TypeScript, React, Node.js, PostgreSQL, Protobuf, gRPC, Vite, SWC, NX, PNPM*

### Vice President / Architect | MSCI Inc. (10/2020 - 11/2023)

- Architected Climate Value-at-Risk dashboard integration, enabling institutional investors to quantify the financial impact of climate change on real estate using a React frontend, REST APIs, and a backend integrating MSSQL and Elasticsearch.
- Engineered a scalable data pipeline to migrate real estate data from MSSQL to Snowflake, enabling enhanced analytics for clients.
- Implemented a secure, multi-application authentication and authorization system using AWS Cognito and Node.js.
- Designed a monorepo architecture with Yarn workspaces and Vite, enabling code sharing between modern React packages and a legacy AngularJS application.

*Tech: TypeScript, React, Node.js, MSSQL, Elasticsearch, AWS Cognito, Snowflake, LaunchDarkly, Vite*

### Senior Consultant | Morgan Stanley (03/2018 - 08/2020)

- Designed and built real-time finance, budget, and headcount dashboards by creating Node.js/Express APIs on top of existing KDB+/Q stream processing systems.
- Led the incremental migration of a large-scale administration platform from AngularJS to React, ensuring zero downtime.

*Tech: React, React Hooks, Express, Node.js*

### Senior Engineer | OkCupid (06/2017 – 01/2018)

- Developed an administrative portal for content moderators to review user-generated content, improving platform safety and moderation efficiency.
- Built a server-side rendering (SSR) service for React applications to improve performance and SEO.

*Tech: React, Redux, Node.js, Docker*

### Co-Founder | Swett/Pineapl.io (08/2015 – 12/2017)

- Co-founded and engineered an automated B2B analytics system for gyms and service businesses, gathering real-time customer feedback to identify operational weaknesses.

*Tech: Swift, React Native, Node.js, PostgreSQL, Docker, Firebase*

## Education

Rutgers, The State University of New Jersey