Jesse Earle

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Fullstack Developer & Architect with 15+ years building scalable web applications and data-driven systems using React, TypeScript, and modern JavaScript.

Leadership and Technical Proficiency

Leadership & Strategy	Architecture & Technologies	Core Development
Team Leadership & Mentoring	System Design & Architecture	**Frameworks**: React, Node.js, Express
Technical Vision & Roadmap	Cloud Transformation (AWS)	**Languages**: TypeScript, JavaScript, Go
Stakeholder Collaboration	API Design (REST, gRPC)	**Databases**: PostgreSQL, MSSQL, Redis
Budget & Planning Support	Microservices & Distributed Systems	**Build Tools**: Docker, Vite, SWC, Webpack
Hiring & Talent Development	CI/CD & DevSecOps	**Testing**: Jest, Vitest
Legacy System Migration	Data Pipelines & Integration	**Package Mgmt**: Yarn, Bun, PNPM
Agile Project Management	Monorepo Strategy (NX, Lerna)	

Work History

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

- Built real-time street orders dashboard to monitor trade execution across brokers, improving trading operations visibility.
- Created a stress-testing platform that applied historical Black Swan volatility to live portfolio data for forward-looking risk assessments.
- Developed a real-time options pricing dashboard for exotic derivatives with PV calculations based on live market data and user-defined barriers.
- Architected a team-wide monorepo strategy using NX, SWC, and PNPM, resolving ESM/CJS conflicts and reducing CI build times by over 50%.
- Delivered a bonus allocation API and frontend to automate year-end compensation workflows.
- Built calendar event APIs and UIs to support scheduling integration across internal tools.

TypeScript, React, Node.js, PostgreSQL, @testing-library, Protobuf, gRPC, gRPC-Web, Vite, SWC, NX, PNPM, Ant Design

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

- Architected an end-to-end real estate data platform serving external clients via REST APIs, integrating MSSQL and Elasticsearch with a custom React frontend.
- Built a scalable data pipeline to migrate real estate data from MSSQL to Snowflake, enabling enhanced client analytics.
- Implemented an authentication/authorization system using AWS Cognito and Node.js to secure multi-application client access.
- Designed a modern monorepo architecture with Yarn workspaces and Vite, enabling React package code sharing while maintaining AngularJS/Webpack compatibility.
- Established a feature management strategy using LaunchDarkly for controlled rollouts and A/B testing.

TypeScript, React, Express, Node.js, MSSQL, Elasticsearch, AWS Cognito, Snowflake, LaunchDarkly, Yarn, Vite, AngularJS, Webpack

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

- Architected and built the UIs, APIs, and infrastructure for the Fixed Income real-time finance, budget, and headcount dashboards.
- Modernized the API architecture with Node.js/Express, creating user-friendly APIs while leveraging KDB+/Q for real-time stream processing of large financial datasets.
- Migrated the Cross Desk Administration platform from AngularJS to React on a module-by-module basis until the legacy framework was fully removed.
- Built a dashboard, UI, and API for the Fixed Income Finance Email Builder and Scheduler.

React, React Hooks, Express, Node.js, KDB+/Q

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

- Built an administrative portal for moderators to review fake profiles and abusive messages.
- Created a server-side rendering service for React applications.

- Implemented a payment frontend with backend API integration.

React, Redux, Node.js, Sass, Docker

Co-Founder | Swett/Pineaapl.io (08/2015 − 12/2017)

- Built an automated exercise tracking application linking hardware beacons with gym equipment to track cardio distances and free weight repetitions.
- Created a real-time analytics system to gather customer feedback on service, speed, and quality metrics at checkout.
- Developed a dashboard analyzing customer ratings with hourly, daily, and weekly breakdowns to identify performance issues.

Swift, React Native, React, Redux, Node.js, Express, Sequelize, PostgreSQL, Docker, Firebase, Estimote Beacons

Senior Software Engineer | Yieldmo (02/2016 − 05/2017)

- Built an internal full-stack application using Node.js/GraphQL and React/Redux to manage and generate ad creatives for deployment on Google's DFP.

React, Redux, GraphQL, Node.js, Express, Docker, Webpack, Mocha, Chai, Enzyme

Consultant | Goldman Sachs (12/2015 − 02/2016)

- Developed a firm-wide build tool for internal frontend JavaScript products.

JavaScript, Build Automation, Frontend Development

Consultant | Shutterstock (09/2015 − 11/2015)

- Built an internal PayPal Express Payment API for a Sinatra-based e-commerce payment gateway.

Ruby, Sinatra, API Development, PayPal API

Senior Frontend Software Engineer | MallHawk, Inc (09/2014 − 09/2015)

- Built `I Wanna v1`, a location-based application suggesting destinations with vendor discounts.
- Built `MallHawk v1`, a marketplace for local vendors to compete with online retailers via an automated reverse auction system.

Ember, Objective-C, Alamofire, PromiseKit, RestKit

Consultant | High5Games (03/2014 − 09/2014)

- Built a UI and API for filtering, sorting, and searching internal game data.

AngularJS, Node.js, Mocha, Chai, Gulp, Browserify, Bootstrap

Senior Software Developer | Shopbeam (03/2013 − 03/2014)

- Built an infinite-scrolling dashboard for content publishers.
- Created a Node.js module for streaming and storing images on AWS S3.

AngularJS, Node.js, Express, Sequelize, PostgreSQL, Redis, Stylus, Jade

Senior Software Developer | ICC Lowe Thermal (03/2011 − 09/2012)

- Developed a system to distribute sales aids (PDFs, videos, HTML5 apps) to an iPad client from a web-based administrative portal.
- Created a cross-platform document management iPad app for Johnson & Johnson's Vision Care Institute.
- Built a four-player Microsoft Surface video game featured at the National Hemophilia Foundation expo.

Objective-C, C#, Node.js, HTML5, CoffeeScript, PHP, MonoTouch, WPF

Software Developer | Rutgers University (03/2010 − 03/2011)

- Developed a robust user input framework for the university's undergraduate application system.
- Performed unit and integration testing using JUnit, Dojo Objective Harness, and Selenium.

Java, JavaScript, Dojo, Spring MVC, Oracle

Programmer | Chromecell (09/2009 – 03/2011)

- Designed and built a data acquisition, mapping, and analysis program for automated lineage tracking of cell line clones used in therapeutic drug discovery.

Python, wxPython, Django, COM

Education

Rutgers, The State University of New Jersey (2006–2010) *Computer Science*