Jesse Earle

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Fullstack developer 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 Consultant | ExodusPoint (07/2021 – Present)

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

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

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

- Architected end-to-end real estate data platform serving external clients through REST APIs, integrating MSSQL and Elasticsearch with custom React frontend.
- Built scalable data pipeline migrating real estate data from MSSQL to Snowflake, enabling enhanced client analytics.
- Implemented authentication/authorization system using AWS Cognito and Node.js, securing multi-application client access.
- Designed modern monorepo architecture with Yarn workspaces and Vite, enabling React package code sharing while maintaining AngularJS/Webpack compatibility.
- Established 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)

- Built Fixed Income Real Time Finance, Budget, and Headcount Dashboard architectures, UIs and APIs.
- Transitioned API architecture to modern Node.js/Express for user-friendly APIs while leveraging existing KDB+/Q for real-time stream processing of large financial datasets.
- Migrated Cross Desk Administration from Angular.js to React module by module until Angular.js removal.
- Translated Fixed Income analyst specs into realtime UIs and APIs.
- Modernized Cross Desk Dashboard build from grunt-based concat to Webpack/ESNext/Babel pipeline.
- Built Fixed Income Finance Email Builder/Scheduler Dashboard architecture, UI and APIs.

React, React Hooks, Express, Node.js

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

- Built administrative portal for moderators to review fake profiles and abusive messages.
- Created server-side rendering service for React applications.
- Implemented payment frontend with backend API integration.

React, Redux Thunk, Node.js, Sass, Pub, Docker

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

- Built automated exercise tracking application linking hardware beacons with exercisers to track treadmill/elliptical distances and free weight repetitions.
- Created analytics system gathering real-time customer feedback on service/speed/quality metrics at checkout.
- Developed dashboard analyzing customer ratings with hourly, daily, weekly, and monthly breakdowns to identify problematic locations and timeframes.

Swift, OAuth2.0, Node.js, Express, Sequelize, Docker, PostgreSQL, Estimote, Firebase, React, Redux, Redux Sagas, Reselect, Styled Components, React Router, React Native, Chart.js

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

- Built internal fullstack application using Node.js/GraphQL and React/Redux to manage and generate ad creatives deployed on Google's DFP.

React, React Router, Redux, Docker, Babel, Webpack, GraphQL, Mocha, Chai, Enzyme, Node.js, Express, ESLint, Karma, OAuth2.0

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

- Built I Wanna v1, a location-based app suggesting destinations with vendor discounts.
- Built MallHawk v1, a marketplace for local vendors competing with online retailers via automated reverse auction.

ObjectiveSugar, Lockbox, FBSDKCoreKit, FBSDKLoginKit, Adjust, AFNetworking, Alamofire, PromiseKit, OCMapper, RestKit, Ember, Ember CLI

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

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

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

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

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

AngularJS, Browserify, Node.JS, Express, Stylus, Jade, Sequelize, Postgres, Redis

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

- Built 4-player touch table game for Microsoft Surface (PixelSense).
- Developed multiple websites and e-detailers.

Objective-C, Ruby, C#, MonoTouch, Surface 2.0 SDK, Express, RoR, CSS, HAML, JSON, MySQL

Software Developer | Enterprise Systems & Services, Rutgers University (03/2010 − 03/2011)

- Built Rutgers frontend Undergraduate Admission application.

Dojo, Java, SpringMVC, Oracle

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

- Built cell line lineage tracker for robotics department.

Python, wxPython, COM

Education

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