

Jesse Earle

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Polyglot software developer experienced in building full stack data intensive web and native applications.

Frameworks/Libraries React, Jotai, Zustand, Node.js, Express

Languages TypeScript, Javascript, Go

Stores PostgreSQL, MSSQL, Redis, Elasticsearch

Tools TSC, Vite, SWC, PNPM, Bun, Yarn, Docker, Jest, Babel, Webpack, Lerna

Work History

ExodusPoint (07/2021 - Present)

Consultant - LittleBigBerry Consulting

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

- Building a street orders dashboard to track and display real-time status and execution details of trades routed to external brokers, improving visibility for trading and operations teams.
 - Built a stress-testing dashboard that applies historical Black Swan volatility scenarios to live portfolio data, enabling traders and risk managers to perform forward-looking risk analysis.
 - Developed an options pricing dashboard supporting No-Touch, Double No-Touch, and other exotic structures, with real-time PV calculations based on user-defined parameters and market conditions.
 - Architected and implemented a monorepo strategy, resolving ESM/CJS compatibility, accelerating build times via caching, and streamlining version management across internal and external packages.
 - Designed and implemented a bonus allocation API and application to streamline compensation workflows.
 - Built calendar event APIs and UIs to support scheduling and integration with internal tools.
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MSCI Inc. (10/2020 - 11/2023)

Architect

TypeScript, React, Express, Node.js, MSSQL, Elasticsearch, AWS, Snowflake

- Built external client facing real estate pipeline REST API from MSSQL and Elasticsearch.
 - Built external client facing React app using the real estate pipeline REST API.
 - Built AWS Cognito authentication service in Node.js.
 - Building real estate data pipeline from MSSQL to Snowflake.
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Morgan Stanley (03/2018 - 08/2020)

Lead Engineer - LittleBigBerry Consulting

React, React Hooks, Express, Node.js

- Built Fixed Income Real Time Finance Dashboard architecture, UI and APIs.
- Built Fixed Income Budget Dashboard architecture, UI and APIs.
- Built Fixed Income Headcount Dashboard architecture, UI and APIs.
- Transitioned API architecture to a modern Node.js/Express application for building/aggregating user friendly APIs, while leveraging existing KDB+/Q for real-time in memory stream processing of large financial datasets.

- Transitioned Cross Desk Administration Angular.js application to a modern React application, module by module, until Angular.js could be fully removed.
 - Interfaced with and translated specs from Fixed Income analysts into realtime UIs and APIs.
 - Refactored existing Cross Desk Dashboard, from a grunt based concat build to a modern Webpack, ESNext, Babel pipeline.
 - Maintained existing Cross Desk Administration tool.
 - Built Fixed Income Finance Email Builder/Scheduler Dashboard architecture, UI and APIs.
 - Manage a team of 2 engineers.
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OkCupid (06/2017 - 01/2018)

Senior Engineer

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

- Built administrative web portal for moderators to view fake profiles and abusive messages between users.
 - Built server side rendering service for React applications.
 - Built payment frontend/integration with backend API.
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Swett/Pineaapl.io (08/2015 - 12/2017)

Co-Founder/Developer

Swift, OAuth2.0, Node.js, Express, Sequelize, Docker, PostgreSQL, Estimote

- Built an automated exercise tracking application and gym analytics tool that links small hardware beacons with an exerciser and begins automatically tracking treadmill/elliptical distances and free weight repetitions.

Firebase, React, Redux, Redux Sagas, Reselect, Styled Components, React Router, React Native, Chart.js, Docker

- Built analytics system that gathered feedback from customers at checkout on various metrics such as service/speed/quality in real time.
 - Built dashboard for analyzing and displaying gathered customer ratings. The dashboard provided visuals for hourly, daily, weekly, and monthly breakdowns of rating to pinpoint problematic locations and hours all in real time.
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Yieldmo (02/2016 - 05/2017)

Senior Software Engineer

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

- Built internal fullstack web application using Node.js/GraphQL and React/Redux to manage and generate ad creatives that are deployed on Google's DFP (Double Click for Publishers).
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MallHawk, Inc (09/2014 - 09/2015)

Senior Frontend Software Engineer

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

- Built version 1 of I Wanna, a location based application that suggests where to go and offers discounts at participating vendors along the way.

Ember, Ember CLI

- Built version 1 of MallHawk. A marketplace for local vendors to compete with online retailers in an automated reverse auction.
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Consulting (03/2014 - 09/2014)

High5Games

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

- Built API for filtering, sorting, and searching game data.
 - Built API driven web UI for filtering, sorting and searching game data.
 - Built UI framework for serving ads.
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Shopbeam (03/2013 - 03/2014)

Senior Software Developer

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

- Built infinite scrolling dashboard for content publishers.
 - Built AWS S3 Node.js module for streaming and storing images on S3.
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ICC Lowe Thermal (03/2011 - 09/2012)

Senior Software Developer

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

- Built multiple content dissemination playlist iOS application using Cocoa and MonoTouch.
 - Built a 4 player touch table game for the Microsoft Surface (now called PixelSense).
 - Built multiple websites and e-detailers.
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Enterprise Systems & Services, Rutgers University (03/2010 - 03/2011)

Software Developer

Dojo, Java, SpringMVC, Oracle

- Built Rutgers' frontend Undergraduate Admission application.
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Chromecell (09/2009 - 03/2011)

Programmer

Python, wxPython, COM

- Built cell line lineage tracker for the robotics department.
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Education

Rutgers, The State University of New Jersey, Dropped Out (2006-2010)