Ethan Stark

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HIGHLIGHTS

- 8 years of experience with JavaScript, Node.js, and React
- Built and scaled search site from launch to +1 million Active Monthly Users
- Automated 401k processing and reduced manual work of operations team by 40.6%

Skills

Backend: Node, PostgreSQL, JavaScript, TypeScript, GraphQL, Docker, AWS

Frontend: React, JavaScript, HTML, CSS, Jest, Redux

Experience

Independent Contractor - San Francisco, California / Remote

October 2022 - Present

Freelance Web Contractor

- Prototype and integrate Order Management System into existing custom banjo order flow by ingesting legacy spreadsheets into functional database with Postgres, providing a single source of truth for order status and order adjustments and customizations
- Audit and fix e-commerce site for security risks and deprecated payment gateway

Private Software Development Instructor

- Provide hands-on real-world instruction and apprenticeship to junior iOS, MacOS, and web developers
- Guide students through the full lifecycle of building apps, from paper prototyping, Firebase and Postgres database schema design, automated Jest testing, TestFlight for beta testing, Heroku deployment, and AppStore publishing
- Teach best practices when using git and GitHub for version control, pull requests, and collaboration
- · Student outcomes include breaking into the industry with a six-figure junior developer role

Human Interest - San Francisco, California / Remote

February 2022 - October 2022

Senior Software Engineer I

- Designed system for automating the 401k contribution submissions for 120,000 of our clients using Typescript and Node.js, reducing the amount of manual submission work by operations team by 40.6%
- Planned and executed incremental migration of functionality from the legacy monolith codebase to SOA services, enabling our product to meet ambitious scaling goals
- Built full-stack internal tooling, dashboards, and tables using React, Metabase, REST, and GraphQL endpoints, providing Operations staff with actionable insights on clients' 401ks.
- · Onboarded, trained, and mentored new engineers on best practices and code quality standards
- Audited, revised, and debugged the process documentation for local Docker developer setup, enabling new engineers to spin up their environments and hit the ground running
- Provided shifts of 24/7 on-call triage and hot-fix engineering support with PagerDuty for a dozen production AWS microservices, ensuring high availability and customer satisfaction
- Identified and corrected inefficient Postgres database gueries using pganalyze
- Developed a multi-level alert system by integrating PagerDuty, Datadog and Jira, designed to respond to application errors and unusual AWS service usage (CPU, memory, and database). This system informs oncall personnel as needed, and also auto-initiates Jira tickets for efficient issue tracking and resolution.
- Identified and debugged complex issues using Datadog queries, tracing the roundtrips of end-user actions across multiple services

Senior Full Stack Engineer

- Launched a ground-up microservice rebuild of GovOS Cloud Search
- County records search engine used by dozens of counties across the US, including Dallas. Check out how cattle brands are recorded in Texas by exploring the live deployed site!
- Scaled app to +1 million Active Monthly Users
- · Lead engineer for our API Service, the central multi-protocol Node.js hub for all microservices
- Engineered responsive React UIs featuring Web Socket connections to the backend to deliver rapid, up-todate updates for the user
- Employed RabbitMQ messaging to allow multiple backend microservices to respond to important events
- Designed secure authentication system using JWTs to protect sensitive documents. Our application has experienced zero data breach events in its five years in production
- Developed a Configuration Service and a client NPM module that enabled hundreds of parameters to be customized for different counties' document attributes and functionality requirements
- · Incorporated ElasticSearch for our Search Service to query millions of documents in seconds
- Built customer support portal micro frontend with React to allow support staff to correct orders, reset passwords, issue refunds, adjust user settings, and manage user roles and permissions
- Integrated Stripe, enabling users to easily purchase documents and securely store payment information
- Designed and built reusable Document Preview React component shared by three of our front-end services
- Document Preview features include redaction, zoom, express checkout, linked documents, and OCR text highlighting
- Crafted reusable, customizable Receipt React functional component, used across our three frond-ends.
 Empowered other developers to easily prototype changes using React Cosmos sandbox, including visual regression automated tests.
- Architected a complex, extensible e-commerce checkout handler with JavaScript that handles cart checkouts, express checkouts, recurring subscription payments, prorations, and refunds
- Expanded GovOS revenue by implementing the ability to purchase certified documents
- Minimized bugs and regressions by building extensive suites of unit tests (Jest, Mocha, Chai), integration tests (Docker), and E2E tests (TestCafe)
- Managed deployments across test, dev, and production environments with Jenkins and Google Cloud Platform (GCP)
- Coordinated with frontend and backend teams to design and adjust API contracts, which are then published as a private NPM package, shared among microservices, and enforced via JSON Schema

Learners Guild - Oakland, California

July 2016 – July 2017

Full Stack Engineer

Lead teams of junior devs building and maintaining the following projects at Learners Guild:

Coach Queue

- Node + React application that allows junior developers to request help from coaches in real-time
- Designed PostgreSQL database schema, DB migrations with Knex, and tests with Mocha

Trossello

- Open source clone of Trello.com. SPA React + JavaScript app to organize projects with lists and cards.
- Wrote Chai test suites for Express API routes, database methods, and user authentication

Freelance Web Developer - Oakland, California

January 2015 - July 2017

- Designed the backend, database, and SQL schema for Strive Messaging's SMS campaign organizing tool
- Built proof-of-concept React frontend for Inbox AI featuring interactive JavaScript charts and graphs

Education

University of Minnesota, Minneapolis, Minnesota BA in Psychology

September 2004 Graduated December 2007