

John Dunn

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SKILLS & CERTIFICATIONS

- **Languages:** JavaScript, TypeScript, SQL, Python, HTML, CSS
- **Frameworks & Libraries:** React, Node.js, Express.js, Mongoose, Redux, React Query, Tailwind CSS, MUI, Bcrypt, JSON Web Tokens
- **Certifications:** Certified Scrum Product Owner
- **Databases:** MongoDB, PostgreSQL, Microsoft SQL Server, DataBricks Unity Catalog
- **Tools & Testing:** Webpack, Rollup, Jest, React Testing Library, CI/CD
- **General:** Github, Jira, Microsoft DevOps, Confluence, Notion, Balsamiq, Lucid

EXPERIENCE

Open Source

Software Developer

September 2023 – Present

React Query Rewind

- Developed a memory-efficient custom React component in TypeScript and built a long-lived two-way window messaging system to enable real-time data synchronization between our npm package and devtool, allowing developers using the state management tool React Query to time travel state directly in the browser
- Implemented and customized third-party libraries to format state data, highlight JSON property changes (additions/updates/removals) between state changes and allow JSON nodes to be expanded/collapsed to streamline the debugging process for developers
- Enforced a consistent environment across development and production by aligning dependencies for a seamless workflow
- Optimized browser performance and compatibility by configuring Webpack for minification and Rollup for efficient bundling
- Configured testing suite with React Testing Library and Jest, automated testing as part of CI/CD and created unit tests with 80% coverage to ensure functionality is maintained across future iterations

GroceryPal

- Engineered a mobile-first app with React and Tailwind CSS to create reusable components and provide a consistent user experience across a variety of screen sizes that utilizes large language models to automatically categorize grocery items by aisle
- Utilized Express to efficiently handle concurrent HTTP requests and used the middleware design pattern to authenticate users, use third-party APIs, and make CRUD updates in the MongoDB database

FSA Optimizer

- Established Postgres to safeguard healthcare data securely, leveraging its ACID compliance ensuring reliable, consistent transactions
- Programmed secure user authentication using Bcrypt for password hashing and JSON Web Tokens for session management, ensuring robust security and seamless persistence across sessions

R1 RCM, San Francisco, CA

Senior Group Product Manager

September 2022 – September 2023

- Oversaw 3 Product Managers and collaborated with 4 engineering teams to evolve CloudmedAI into a scalable platform that enabled multiple solution teams to efficiently build on top of the system, resulting in improved development velocity
- Built complex models in DataBricks using Spark SQL & Python to identify and resolve both payer and provider data discrepancies
- Deployed an 835 remittance standardization system that increased analysts' efficiency in overturning denied claims by 34% and reduced new client onboarding time by 85%

Cloudmed (acquired by R1 RCM), San Francisco, CA

Product Manager

January 2021 - September 2022

- Led team of 9 engineers to build automated workflow system that queues and filters claims based on the latest claim data and user configurations, increasing revenue by 209%
- Transformed the Rule Engine to allow internal teams to create more complicated and targeted rules in Spark SQL, resulting in a \$107M revenue increase

Triage Consulting Group (acquired by Cloudmed), San Francisco, CA

Developer & Product Manager

April 2020 – January 2021

- Owned Triage's Contract Engine that prices 10M hospital accounts per month, identifies contractual underpayments for 150 clients and consists of 80 tables and 130 stored procedures across 2 schemas
- Designed claims pricing algorithms and optimized SQL performance through comprehensive query tuning and indexing reviews, resulting in reduced runtime and minimized server strain
- Architected and programmed a version management system that improved traceability of claims' expected reimbursements, streamlined the resolution of underpaid claims, promoted data integrity, and decoupled systems to reduce SQL deadlocks by 12%

Audit Analytics & Strategy Consultant

June 2019 – April 2020

Consultant

September 2018 – June 2019

- Founding member of a specialized team that built SQL procedures for company-wide use and led to \$12M in annual revenue
- Analyzed comprehensive financial data to identify issues that led to revenue loss across client hospital networks

EDUCATION

University of California Santa Barbara (UCSB) | BA in Economics & English Minor

June 2018

- 3.87 GPA, High Honors, Dean's Honors Scholar

Interests

- Skiing, mountain biking, chess, cooking