Jea Hyun Lee

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SKILLS

Frontend: TypeScript, JavaScript (ES6+), React, Next.js, Redux, React Router, Tailwind CSS, HTML5/CSS3, Tanstack
Backend/Database: Node.js, Express, REST APIs, PostgreSQL, MongoDB, OAuth2, JWT, Audit
Testing/DevOps/Process: AWS (EC2, ECR, ECS, RDS), Docker, CI/CD (GitHub Actions), Jest, React Testing Library, Agile, Scrum, Jira

EXPERIENCE

Software Engineer (Open Source) — May 2024 - Present
Ditto (Os Labs) | New York, NY

- Architected a Node.js/Express schema migration execution engine processing versioned SQL scripts with PostgreSQL audit logging, enabling traceable database deployments with error handling
- Led the optimization of a React SPA with route-level code splitting using React.lazy and Suspense, improving initial load performance and achieving a 92% Lighthouse score
- Containerized client and server with Docker and orchestrated deployment to AWS ECS via ECR, with RDS PostgreSQL backend supporting the versioned migration system
- Implemented bcrypt/JWT authentication with GitHub OAuth 2.0 and token validation middleware, securing API endpoints with role-based access control for Owner, Admin, and User permissions
- Established Jest, React Testing Library, and Supertest testing suite with unit, integration, and snapshot tests, achieving 82% code coverage across authentication and migration workflows

Software Engineer — Jan 2023 - Oct 2023
University Spine Center | Wayne, NJ

- Led the automation of research data prep with Streamlit, reducing per-study prep from 40 to 30 minutes (~25%), saving 10+ hours per month across 60+ studies
- Developed a Python data visualization dashboard, utilizing Pandas for data manipulation and Matplotlib and Seaborn for visualizations, displaying key research metrics for physicians and residents

PROJECTS

GameBook | Browse IGDB titles, save favorites, and manage a personal library to reduce game choice overload
GameBook GitHub

- Integrated the IGDB API via an Express server-side proxy to keep credentials server-only and normalize game data for the user
- Exposed REST endpoints for favorites and user libraries, persisting records in MongoDB via Mongoose to enable a personal library that rehydrates on login

Meet With Friends | Find mutual free time by selecting weekly slots and viewing group overlap
Meet With Friends GitHub

- Authenticated users with Google OAuth 2.0 via Passport and express-session to reduce signup friction and maintain session state for group scheduling
- Designed a PostgreSQL schema for users, groups, and schedules and exposed REST endpoints that aggregate availability with SQL to return a compact overlap JSON payload the client renders in one screen

EDUCATION

Codesmith, Advanced Software Engineer Immersive	2024
Rutgers Graduate School of Biomedical Sciences, M.B.S.	2021
Binghamton University, B.A. in Biology	2018

TALKS & PUBLICATIONS

CI/CD Technical Talk - Scismic	2024
Open Source Medium Article	2024