

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, ESLint, Prettier, Agile, Scrum, Jira, Observability/Logging

EXPERIENCE

Software Engineer

May 2024 - Present

Ditto | New York, NY

- Built a Node.js/Express schema migration execution engine that runs versioned SQL scripts with status and audit logging in PostgreSQL, enabling reliable, traceable deployments
- Led the optimization of a React SPA with route-level code splitting using React.lazy and Suspense, reducing initial JS and improving first-load performance by 26%
- Containerized client and server with Docker and configured a GitHub Actions pipeline that pushes images to AWS ECR and deploys to AWS ECS, with CloudWatch dashboards tracking API latency and error rates
- Implemented GitHub OAuth 2.0 and JWT with token-validation middleware and role-based route guards to enforce project and membership access
- Established a Jest and React Testing Library suite with shared helpers and a CI test job, achieving 82% coverage and catching regressions in pull requests

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
Rutgers Graduate School of Biomedical Sciences, M.B.S.
Binghamton University, B.A. in Biology

2024
2021
2018

TALKS & PUBLICATIONS

CI/CD Technical Talk - Scismic
[Open Source Medium Article](#)

2024
2024