

# Jea Hyun Lee

Teaneck, NJ | (201) 803-9002 | [jealee44@gmail.com](mailto:jealee44@gmail.com)  
[GitHub.com/jealee44](https://github.com/jealee44) | [LinkedIn.com/in/jealee44](https://www.linkedin.com/in/jealee44)

## SKILLS

**Frontend:** TypeScript, JavaScript (ES6+), React, Next.js, Redux, React Router, Tailwind CSS, HTML5/CSS3

**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

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