

Jiyoung Lee

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SKILLS	JavaScript (ES6) • TypeScript • React • Next.js • HTML • CSS (Tailwind CSS) • Node.js • Express • SQL (PostgreSQL, MySQL) • NoSQL (MongoDB) • Webpack • WebSockets • SolidJS • Python • R • NPM • JIRA • Git • JSON		
EXPERIENCE	Software Engineer <i>nVision</i>		2023 – Present
	<i>A Next.js dev-tool providing real-time insights on server-side network requests and route visualization</i>		
	<ul style="list-style-type: none">• Developed a custom implementation of OpenTelemetry-based tracing to be integrated with Next.js applications, enabling observability into server-side network calls for performance analysis, debugging, and optimization.• Configured WebSockets for persistent connection and bi-directional data communication between custom server and client application, and live data visualization and real-time monitoring of network activity.• Created Express server to receive exported tracing data from Next.js spans and HTTP instrumentation, and implemented middleware to dynamically handle a wide variety of spans from trace data for enhanced debugging.• Crafted an interactive tree visualization of the client's Next.js application using D3 and Material UI, populated by a custom data parser that explores the file structure, allowing users to view their connections between nested routes.• Integrated TypeScript to streamline the development process through strict type-checking, ensure immediate error detection during compilation time, and maintain secure and accurate analytics data between application and dev tool.• Contributed to the open source community through tech accelerator OSLabs, to promote collaboration among developers and provide an advanced solution for complex developer issues.		
	Full Stack Developer <i>Hotswaps</i>		2022 – Present
	<ul style="list-style-type: none">• Engaged in Scrum practices by participating in daily stand-ups and sprint planning sessions to facilitate the seamless delivery of MVP features, fostering cross-functional alignment, iterative progress, and efficient development timelines.• Rebuilt the mobile page for user settings using ReactJS and Tailwind to improve UX and page flow by adapting to different screen sizes and devices, ensuring a consistent and user-friendly experience.• Optimized user favorites fetch times by 30% by implementing SQL linking tables and refactoring complex join queries within Express API endpoints to save and fetch favorited listings.• Documented comprehensive onboarding and workflow processes, fostering a culture of knowledge sharing and improving the integration of new engineers into the team by expediting their familiarity with the codebase.		
PROJECTS	Associate, Technical Project Lead (Reference Data) <i>Brown Brothers Harriman & Co</i>		2018 – 2022
	<ul style="list-style-type: none">• Successfully launched an automated solution for SRD II Shareholder Identification, ensuring compliance by resolving API errors, debugging JSON files, and providing detailed technical feedback to third-party provider's engineers.• Spearheaded requirement analysis/documentation, UAT, and implementation of system enhancements to standard settlement instruction (SSI) reporting tools in alignment with industry/market best practices and client feedback.• Led onboarding, testing, and integration for 70 new clients on the GC Direct platform, leveraging API-based communication to integrate with account management systems, significantly reducing settlement errors.		
	Social Feed <i>An open community for users to share posts and interact with others</i>		2022
	<ul style="list-style-type: none">• Employed Passport.js local strategy with Express crypto and express-session middlewares to implement user sign-up/authentication with persistent sessions and expiration, ensuring secure user profiles and activity tracking.• Utilized React hooks and useContext store to develop reusable and organized UI elements for a lightweight state management solution, reducing code complexity and enhancing maintainability by preventing prop drilling.• Architected Node.js/Express server to set up API routing for multiple endpoints, facilitating CRUD interactions with the database, and leveraging Express's modularity to ensure flexible request handling while securing user interactions.		
	Bagpack <i>A travel organization application for managing packed items across various trips and bags</i>		2023
EDUCATION	<ul style="list-style-type: none">• Utilized React to create reusable components and leveraged JSX syntax to improve readability, promoting future flexibility for enhancements and streamlining the development process.• Leveraged MongoDB to store and retrieve user data with hierarchical data views, leveraging its flexible document-oriented data model and support for nested data to facilitate an evolving model during development.• Implemented nested routes with React Router to create a dynamic single-page application (SPA), enabling smooth client-side routing without page reloads between different views.		
	BS Management Information Systems		Certified Associate in Project Management (CAPM)
	Rutgers University GPA: 4.0		Project Management Institute