

James Lee

Software Engineer
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TECHNICAL SKILLS

Strong: TypeScript, JavaScript(ES6+), React, Node.js, Express.js, NoSQL (MongoDB), Git/Github, Svelte,, Redux, [Next.js](#), [Vis.js](#),

EXPERIENCE

FireSummaries.com | Software Engineer | Financial Independence Retire Early Website

2025

- Built a full-stack web application with Next.js and Supabase to give FIRE (Financial Independence, Retire Early) enthusiasts an easier way to find the most relevant FIRE posts.
- Scraped top Reddit posts daily from FIRE communities and integrated AI to surface only those with key details like age and net worth.
- Developed an interactive compound interest calculator with a variance simulation feature for testing different investment scenarios.
- Implemented server-side rendering (SSR) to improve initial page load speed and enhance SEO performance.
- Migrated from Firebase to Supabase for cost savings and performance, designed efficient Postgres schemas for storing posts
- Limited Supabase egress and compute usage by batching queries, caching results, and reducing redundant API calls.

SvelteScope | Software Engineer | Svelte Chrome Dev Tool

2024

- Accelerated under OS Labs(opensourcelabs.io) focused on frontend development, allow users to change props and states in a controlled environment and see different version of props changed
- Integrated Vis.js to create a hierarchical component tree by binding the nodes and edges datasets to Svelte stores containing the latest component hierarchy data, allowing developers to interact with the tree and single out components to manipulate
- Incorporated Typescript into development processes, leveraging its static analysis capabilities to mitigate type and undefined errors and simplify debugging, resulted in enhanced code readability and streamlined development, ultimately improving productivity.
- Utilized the Svelte framework for Chrome extension development, leveraging its distinctive advantage of eliminating the virtual DOM, thereby optimizing loading times and enhancing user performance for a smoother browsing experience.
- Implemented a NoSQL database (MongoDB) in our splash page for persistent storage of user subscriptions, ensuring user preferences are maintained even after restarting the extension.
- Engaged in Scrum activities, including daily standups and code reviews, to foster collaboration and maintain code quality within the team.
- [SvelteScope | Your New Svelte Debugging Companion](#)

Computer Science Co-Op Program | Software Engineer

June 2023 - August 2023

- Built a Java Spring Boot application that integrated with the Refuge Restroom API to help users locate public bathrooms across NYC.
- Worked with a team to deliver a basic Minimum Viable Product (MVP) and learned how to collaborate, share code, and give feedback.
- Implemented object-oriented Java classes to organize and manage restroom data.
- Improved performance by caching results to reduce redundant API calls and return nearby bathrooms in under 2 seconds.

PROJECTS

SwimBenchmark.com | Software Engineer | A Web-Based Swim Time & Ranking Platform

2025

- Utilized Next.js for server-side rendering (SSR) to improve performance and SEO, ensuring swim times and rankings are pre rendered which allows faster load times and better search engine visibility.
- Integrated Firebase for authentication and database management, taking advantage of its real-time updates and simple setup to store swimmer data while keeping the system reliable and scalable.
- Implemented Material UI to create a user friendly interface, ensuring consistency across all pages while improving user experience with pre-built components.
- Scraped swim times from SwimCloud, automatically collecting and updating data from the previous year to provide accurate rankings for students.
- Created this website to give my students easy access to their swim times and rankings, allowing them to track their progress and see how they compare to others in their age group.

EDUCATION/PUBLICATION

Brooklyn College, CUNY | Bachelors Computer Science| 2025
Codesmith - Immersive Software Engineering Course| New York, NY | 2024

RECENT TALKS

Next.js Server Side Rendering | 2024

INTERESTS

NBA | Swimming | Netflix | Soccer | Food