

Joshen Lim

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Aug 2020 – May 2024

Bachelor of Computing (Hons) in Computer Science + USP

SKILLS

LANGUAGES HTML, CSS, JavaScript, TypeScript, Java

TECHNOLOGIES React, Next.js, Storybook, Jest, Playwright, React Query, npm, Git, styled-components, Tailwind

WORK EXPERIENCE

Sea Ltd (NYSE:SE) | *Frontend Software Engineer*

June 2024 – Present

- Solely developed features and maintained the frontend codebases (built with **React, TypeScript, TanStack Query**) of our company-wide corporate internal tools: 1) a performance-review webapp utilized by HR and over 3,000 employees, and 2) claims portal for employees to request financial claims, and for managers and accountants to manage approvals.
- Implemented **data visualization** using recharts (D3), **optimization techniques including virtualization, lazy loading, and tree-node caching** from backend responses to enhance performance and user experience.
- Increased TypeScript coverage from 20% to 80% across a 100K LOC project and enhanced testing infrastructure by introducing Mock Service Worker, Storybook and screenshot tests, achieving a 200% improvement in test coverage.
- Actively maintained an internal UI component library (Coral) built on Next.js, consisting of 70+ reusable components, ensuring consistency and scalability across projects.
- Collaborated closely with backend engineers, product managers, QAs, and designers to ensure seamless delivery of pixel-perfect, accessible features.

Lalia SG | *Full-Stack Software Engineer Intern*

Dec 2023 – May 2023

- Spearheaded core product features for Lingosnap, an iOS mobile app to aid Japanese learning built on **React Native, TypeScript, Expo, Next.js, Storybook, Jotai, tRPC, Drizzle, Supabase, Jest, Detox**.
- Single-handedly designed and implemented user authentication, **RevenueCat** in-app purchases, enabling initial monetization of product and facilitating seamless and successful transactions from users.

Autodesk (NASDAQ:ADSK) | *Software Engineer Intern*

Jan 2023 – June 2023

- Optimised core Fusion 360 cloud services in **C++** and **TypeScript**, achieving a 98.7% workflow success rate.
- Initiated and drove the full-cycle development of innovative cross-platform UX features, leveraging on existing RESTful APIs to deploy refined solutions.
- Expedited issue resolution times by proficiently debugging user errors, single-handedly presenting findings and reports to senior engineers and architects across North America and APAC regions.

PROJECTS

TaleWeaver | *Fullstack Developer*

- TaleWeaver is a webapp that leverages on LLMs (OpenAI, SDXL) to generate customizable, illustrated storybooks for children aged 2-6. Built with **FastAPI, ReactJS, Supabase** (PostgreSQL), **Stripe**.
- Integrated user authentication, Stripe payment gateway via webhooks, RESTful APIs, serverless task queues, and notification feature using Observer Pattern.

Lyrical | *ML/Automatic Lyric Transcription*

- Developed 'Lyrical', an automatic lyric transcription tool, leveraging advanced machine learning techniques.
- Fine-tuned a pre-trained Wav2Vec2 model using the DSing dataset to achieve high accuracy in transcription.
- Spearheaded **ReactJS + FastAPI** webapp that allows users to generate lyric predictions from WAV files.