

Joseph Liang, OTR/L

Software Engineer

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PROFILE

I'm a Software Engineer with multiple years of experience with JavaScript, TypeScript, Ruby, Go, and Python. Previously, I was a Psychiatric Occupational Therapist, where patience and strong communication skills were critical. Stubbornly curious, I am passionate about clear, systematic thinking and the power of persistent, intentioned effort.

PROFESSIONAL EXPERIENCE

Co-Creator, Software Engineer, Syncosaurus [🔗](#) 2024 – present

Syncosaurus is an open-source, serverless framework for real-time, collaborative applications that features a synchronization system using client-side prediction and server reconciliation

- Designed, prototyped and contributed to key features of Syncosaurus's synchronization engine, including delta updates, message batching, automatic persistence, and connection state recovery
- Engineered a token-based authentication interface to secure HTTP and Websocket traffic
- Built a Node.js CLI to initialize, integrate, develop, manage, and deploy Syncosaurus projects, including an automated provisioning of Cloudflare infrastructure
- Developed an analytics dashboard with a custom GraphQL backend, allowing developers to easily visualize and monitor hourly time-series usage and error metrics
- Wrote the documentation, which includes an in-depth breakdown of core Syncosaurus concepts
- Authored a comprehensive case study on Syncosaurus's problem domain, use case, design decisions, and key engineering challenges, readable at <https://syncosaurus.github.io/case-study> [🔗](#)

Software Engineer, Self-employed 2022 – present

Developed open-source web applications, including:

- **Request Bucket:** Tool for receiving, organizing, and debugging webhooks
(TypeScript, React, Express, MongoDB, PostgreSQL, Nginx, DO droplet)
- **MemDeck:** Deck memorization toolkit app, with deck customization, record persistence, and a training mode
(Ruby, Sinatra, ERB, PostgreSQL)

Occupational Therapist, Telecare, LCCA, Lifespan Therapy 2017 – 2022

- Designed, planned, and led the first occupational therapy program in a psychiatric health facility
- Conducted OT evaluations, developed appropriate care plans, and managed discharges for incoming referrals in the psychiatric, geriatric, and home health settings

SKILLS

Backend

Node.js / Express, Go, Ruby / Sinatra, Python, PostgreSQL, MongoDB

Frontend

JavaScript, TypeScript, React, jQuery, Handlebars.js, Tailwind, Bootstrap, HTML / CSS

Cloud

Cloudflare (Workers, Durable Objects, Pages, Queues), Digital Ocean Droplets, fly.io

Other

Git / Github, Linux, Bash, Jest, Minitest, Nginx, Rest APIs, GraphQL, Websockets

EDUCATION

Launch School, Software Engineering, Capstone Program [🔗](#) 2022 – 2024

Multi-year, mastery-based curriculum teaching software engineering from first principles

University of Saint Augustine, Master's of Occupational Therapy 2015 – 2017

University of California - San Diego, B.S. General Biology 2009 – 2013