Joseph Liang, OTR/L
Software Engineer

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PROFILE

I'm a full-stack Software Engineer with multiple years of experience in the JavaScript and Ruby ecosystems. I'm also proficient in Ruby and Go. 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