Joseph Liang, OTR/L

Software Engineer

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PROFILE

I'm a psychiatric occupational therapist turned software engineer with multiple years of experience with JavaScript, TypeScript, Ruby, Go, and Python. Patient and 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
- Created Syncosaurus, an open-source, serverless framework for real-time, collaborative applications
- 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 infrastrucuture
- 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 (https://syncosaurus.github.io/case-study 🔗)

Software Engineer, *Self-employed*   2022 – present
Developed open-source web applications with technologies such as JavaScript, Node.js, TypeScript, Go, Ruby, Sinatra, PostgreSQL, MongoDB, Jest, React, CSS, and HTML. Selected projects include:
- **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, GraphQL

Frontend
TypeScript, JavaScript (ES6), 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, Websockets

EDUCATION

University of Saint Augustine, *M.O.T. Occupational Therapy*   2015 – 2017 | San Marcos, CA

University of California - San Diego, *B.S. General Biology*   2009 – 2013 | La Jolla, CA