Joseph Liang
Software Engineer

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PROFILE

I'm a full-stack Software Engineer with several years of experience in multiple languages and technologies, including JavaScript, Ruby, React, and Go. 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 built key features of Syncosaurus's synchronization engine, including delta updates, message batching, automatic persistence, and connection state recovery
- Developed a token-based authentication interface to secure HTTP and Websocket traffic
- Automated provisioning of Cloudflare infrastructure with a CLI application *(Node.js, TypeScript, oclif)* to initialize, integrate, develop, manage, and deploy Syncosaurus projects
- Built an analytics dashboard *(React, D3.js, Bootstrap, GraphQL)*, allowing developers to easily visualize and monitor hourly time-series usage and error metrics
- Composed comprehensive documentation, detailing core Syncosaurus concepts, setup instructions, and troubleshooting information
- Co-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, Ruby, Go, 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

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

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