Jay Gudsson

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EXPERIENCE

Software Engineer, *Self-Employed* 2020 – 2021

Developed open-source software. Select projects include:
- **RedressedBin:** A RequestBin-like application for collecting and viewing HTTP/webhook requests. Built with React, MongoDB, and Socket.io.
- **ProjectHub:** A project management app. Built using React/Redux, Express, and MongoDB.

Civil Engineer-in-Training, *Sense & BC Building Science* 2019 – 2020

Consulted on residential building envelope and structural remediation projects
- Automated of structural and financial analysis spreadsheets using VBA

Co-Creator & Software Developer, *Synapse* 2021

Synapse (*synapse-gateway.github.io* 🔗) is an open-source tool that builds, deploys, and monitors a GraphQL Gateway, enabling legacy services to sit behind a single GraphQL endpoint.
- Created a Node.js CLI for handling local Docker orchestration and automating dozens of AWS API calls for deploying onto and tearing down Fargate instances
- Utilized AWS services to deploy and run component containers on AWS infrastructure, including customization of CloudFormation templates for successful GraphQL health checks
- Contributed to the implementation of a React graphical interface for easily adding services to the gateway by accommodating configuration files for various API formats
- Developed a frontend monitoring dashboard using Material-UI and the Recharts library for displaying and exploring request and error data
- Co-authored our technical case study (*synapse-gateway.github.io/case-study* 🔗) and our technical presentation (*synapse-gateway.github.io/presentation* 🔗)

SKILLS

Languages
JavaScript | TypeScript, Go, Python, SQL

Frameworks
React | Redux, Svelte, Express

Misc. Technologies
Git, Docker, Linux, Node.js, PostgreSQL, MongoDB, Redis, Nginx

Cloud
CloudFormation, S3, Fargate, AppSync, EC2, DigitalOcean Droplets, Heroku

EDUCATION

Launch School, *Capstone* 🔗 2020 – 2021

Online Software Engineering Program | Mastery-based approach to learning JavaScript

University of British Columbia, *Civil Engineering* 2010 – 2014

Bachelor of Applied Science | Graduated with Distinction (3.95 GPA)