

LAWRENCE TAM

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TECHNICAL EXPERIENCE

Conifer – conifer-test.github.io 🔑

Remote

Co-Creator, Software Engineer

June 2022 – August 2022

- Co-created Conifer, an open-source framework that simplifies parallelizing Cypress tests on AWS infrastructure for local development
- Built a robust and easy-to-use CLI with Node.js, Commander.js, and Inquirer.js
- Used AWS CDK to allow users to dynamically deploy Conifer's AWS infrastructure (ECR, ECS, EC2, S3, DynamoDB)
- Utilized AWS SDK for JS within the user's containerized application to send test artifacts to S3 and metadata to DynamoDB
- Designed a test file splitting algorithm based on existing Cypress test timing data
- Reduced local Cypress test suite run time by up to 4x via parallelization & optimized test splitting
- Created a live dashboard for visualizing test results with React, Express, and TailwindCSS
- Collaborated remotely with a team of engineers with daily standups and pair programming
- Co-authored a comprehensive case study, including subject matter research, design decisions, and tradeoffs

Launch School

Remote

Capstone Program

May 2022 – August 2022

- RequestBox: A RequestBin-like tool for inspecting webhooks (Node.js, PostgreSQL, MongoDB, Express, Handlebars)
- Mello: A Trello-like, Kanban-style project management app (MERN stack)
- Shopping Cart - A database-backed e-commerce app (React, Redux, MongoDB, Node.js)

Mastery-based Learning

January 2021 – May 2022

- Developed open-source web applications with technologies such as Node, PostgreSQL, React, JavaScript, HTML, and CSS
- My Todos: A simple Todo tracking SPA built on Express and SQLite following the MVC pattern

SKILLS

Languages – JavaScript, Golang, Python, SQL, HTML, CSS

Frameworks & Libraries – React, Redux, Express, Handlebars, Cypress, Jest

Technologies – Git/Github, Docker, MongoDB, PostgreSQL, RESTful API

Cloud – AWS (ECS, EC2, S3, DynamoDB, CDK, SDK), DigitalOcean Droplet

PROFESSIONAL EXPERIENCE

City of Foster City

Foster City, California

Associate Civil Engineer

January 2019 – May 2022

- Prepared and managed project plans and specifications, construction administration, inspections, and project closeouts
- Coordinated land development projects including design, plan review, construction, and occupancy
- Managed and reviewed consultant plan checks for grading, domestic/fire water, sewer, and storm
- Attended regular meetings with developers, contractors, and inspectors about construction status

EDUCATION

San Jose State University San Jose, California

Bachelor of Sciences in Civil Engineering, 2011

Professional Engineer, CA License No. 89445