Lawrence Tam

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💼 Experience

Co-Creator/Software Engineer,   06/2022 – Present | Remote
Conifer (http://conifer-test.github.io/) ↗

- Created Conifer, an open-source tool that simplifies parallelizing Cypress tests on AWS infrastructure for local development
- Reduced local Cypress test suite runtime by up to 3.7x through parallelization and optimized test splitting
- 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 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 using existing Cypress test timing data
- Created a live dashboard for visualizing test results with React, Express, and TailwindCSS
- Collaborated remotely with a team across US and Japan with daily stand-ups and pair programming
- Co-authored a comprehensive case study ↗ and presented a tech talk about Conifer's design decisions, architecture, and tradeoffs made while building Conifer

Software Engineer,   01/2021 – 05/2022
Open-source web applications and Launch School experience ↗

- Developed open-source web applications with technologies such as Node.js, PostgreSQL, React, JavaScript, HTML, and CSS
- Selected Projects:
  - RequestBox: A RequestBin-like app to inspect 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 built with Node.js, React, Redux, and MongoDB
  - My Todos: A simple Todo tracking SPA built on Express and SQLite following the MVC pattern

Associate Civil Engineer, *City of Foster City*   01/2019 – 05/2022 | Foster City, CA

- Prepared and managed project plans and specifications, construction administration, inspections, and project closeouts
- Coordinated land development projects including design, plan review, construction, and occupancy
- Attended regular meetings with developers, contractors, and inspectors about construction status

🧠 Skills

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

Frameworks/Libraries
React, Redux, Express, Handlebars, Cypress, Jest

Technologies
Git/Github, Docker, MongoDB, PostgreSQL, RESTful API, CI/CD

Cloud
AWS (ECR, ECS, EC2, S3, DynamoDB, CDK, SDK), DigitalOcean Droplets

🎓 Education

B.S. in Civil Engineering, *San Jose State University*   2006 – 2011 | San Jose, CA

Professional Engineer, *CA License No. 89445*