
Professional Experience

Lucid Motors, Software Engineer (Full Stack)

02/2020 - Present

- Built Lucid's internal web portal for communicating and sharing data with Lucid's suppliers. Built with React, NodeJS, and AWS (Cognito, Lambda, S3).
- Built a packaging management system where engineers can login, upload, comment, and create/edit technical design documents. Built with Typescript, React, NodeJS, GraphQL, and AWS.
- Wrote automated scripts to integrate data between Lucid's various internal apps and third party systems (SAP, Ultipro, Schoox) with NodeJS, removing manual work that previously took >3 hours per week.
- Designed and managed deployments by writing Kuberenetes configuration files using kustomize and kpt.

Tesla, Product Manager

06/2016 - 06/2019

- Product lead for Tesla's Warehouse Management System, deploying from concept to launch in 8 months.
- Managed software launches for factory software related to vehicle production, serving 5000+ internal users and \$30M+ worth of weekly inventory.
- Managed 30+ software releases affecting production for models S, X, and 3 in the Fremont factory.

LogFire (Oracle), Software Project Manager

02/2013 - 05/2016

- Led software deployments for clients globally (Chile, South Africa, Singapore, and Canada), completing projects 66% faster than the industry standard (change management, training, launch, on-site support).
- Developed North America's first LogFire training program, which included authoring its 200+ page software user guide and reducing client onboarding time by 50%.
- Configured, tested, and demoed products to 30+ prospective clients worldwide.

Software Engineering Projects

Hoodie - github.com/tkim90/hoodie

A web app to share custom map notes with friends visiting from out of town

- Implemented an interactive map where users can annotate and save with the Mapbox GL.
- Defined PostgreSQL schema and server controllers to save and render geoJSON data from the database
- Built with Typescript, React, NodeJS, and Express.

OpenPlace - github.com/TJM-Associates/ot-right-reservations

A restaurant reservations booking web app

- Scaled the back end infrastructure to handle 2,400+ RPS using a load balancer between 3 microservices, Postgres, and Redis AWS EC2 instances.
- Refactored server logic and cached data with Redis to increase RPS by 700% and reduce latency by 99% using an LRU eviction policy.
- Designed the schema in Postgres to reduce read times for 100M+ rows from 50 seconds to under 10 ms.

Technical Skills

Front-End: Typescript, Javascript, React, Redux, Webpack, HTML, CSS

Back-End: Node.js, Express, GraphQL, Docker, Amazon Web Services, Kubernetes, PostgreSQL, Hasura

Other: Git, Jest/Enzyme, Mocha/Chai

Education

Hack Reactor, Advanced Software Engineering Immersive Program

2019

Georgia Institute of Technology, B.Sc. in Industrial & Systems Engineering, French Minor

2012

Other

Languages: English (native), Portuguese (native), Korean (intermediate), Spanish (intermediate), French (intermediate)