

Lawrence Ho

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I'm a self-taught Software Engineer and hands on learner with 9+ years of experience understanding and translating the needs of customers into elegant and scalable solutions. As a former software systems engineer in cybersecurity and computer networking, I excel in working closely with customers, product managers, and sales to understand design requirements, create sophisticated yet easy to use solutions, and effectively communicate concepts to both technical and non-technical audiences. I'm interested in growing my software development expertise, utilizing my blend of technical and soft skills, and applying my passion for problem solving to create innovative products.

SKILLS

Software Development: Javascript ES6, Typescript, React, Next.js, Node.js, Express.js, MongoDB, PostgreSQL, HTML/CSS, Tailwind CSS

Other Technologies: AWS, GCP, Git, Python, SQL, NoSQL, Kubernetes, Docker, Python, Linux, TCP, UDP, DNS, HTTP, SSL/TLS, Ansible

SOFTWARE ENGINEERING PROJECTS

Habby – Habit Tracking and Productivity App built with React, Express, Node JS, MongoDB

[Live Site](#) | [Github](#)

- Implemented authentication through passport and OAuth 2.0 allowing users to sign in through Google, Facebook, or Github.
- Built the REST API using Express enabling user progress to be stored persistently in the cloud hosted Mongo database.
- Utilized React Router and React Query libraries for client-side routing and AJAX calls to ensure a dynamic and responsive UI/UX.
- Created full stack productivity features including pomodoro timers, web notifications, contribution graphs, analytics, and counters.

Spotify Wrapped Plus – Spotify Wrapped year round and more built with React, Express, Node JS, PostgreSQL

[Live Site](#) | [Github](#)

- Integrated the Spotify API allowing users to sign in through Spotify, view their top artists, and play their top tracks directly in the app.
- Developed infinite scrolling on the search page by dynamically sending Axios requests to retrieve real time data.
- Built the analytics infrastructure for the top genres page using Express and PostgreSQL to perform calculations based on user data.

WORK EXPERIENCE

Freelance

Feb 2023 – Present

Software Engineer – San Francisco

- Developed a Node.js application for a small business to run big data analytics on their Square payment processing data.
- Utilized GCP BigQuery and GCP Cloud Functions to remove costly third party integrations and reduce operational costs by 95%.
- Built SQL queries to identify customer retention rate, staff scheduling, most popular items, and inventory trends.

Radware

Software Systems Engineer - San Francisco

Mar 2020 – Apr 2022

- Designed solutions and provided technical expertise through demos, architecture designs, presentations, and proof of concepts.
- Architected an on prem and cloud DDoS Mitigation solution protecting 11 datacenters with 100Gbps of network capacity.
- Implemented an AWS workload protection solution for threat detection and IAM permissions to improve cloud security posture.
- Developed a bot management solution to protect login processes from bot net threats representing 1/3 of total web traffic.

A10 Networks

Senior Software Systems Engineer - San Diego

Feb 2018 – Dec 2019

- Showcased product solutions by providing technical pre and post sales engineering to enterprise companies.
- Horizontally scaled an ad tech company's revenue network traffic by 3x using an N-tier load balancing architecture.
- Modernized infrastructure by converting load balancing and DNS management to use cloud native technologies hosted in AWS.

Senior Professional Services Engineer - San Jose

Nov 2015 – Feb 2018

- Designed, planned, and implemented product solution deployments from start to finish for 80+ companies.

Network Support Engineer - San Jose

Jul 2013 – Nov 2015

- Troubleshoot and resolved customer issues by verifying software defects and replicating complex L2/L3 - L4/L7 networking traffic.

EDUCATION

University of California, Irvine

Sep 2009 – Jun 2013

Bachelor of Science, Electrical Engineering, 2013

CERTIFICATIONS

AWS Certified Solution Architect - Associate

Dec 2019 – Dec 2022

Credential ID: CLYH4RR2HEBQ11CE