

# Lawrence Ho

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**Github** <https://github.com/lawrencejbho>

**Portfolio** <https://www.lawrencejbho.com>

**Software Engineer** with a track record of building innovative and scalable solutions in the enterprise cybersecurity and networking industry. Experienced in developing high performing web applications with JavaScript, React, and Node.js. Highly motivated individual with strong technical communication skills who excels in fast paced environments. Attained over \$9M in quota as a former systems engineer.

## Skills

**Programming Languages:** JavaScript ES6, TypeScript, Python, HTML, CSS, SQL

**Libraries & Frameworks:** React, Node.js, Express.js, Next.js, Tailwind CSS

**Technologies:** AWS, GCP, PostgreSQL, MongoDB, Git, Kubernetes, Docker, Linux, Ansible, Apache, Nginx, HAProxy

**Networking:** IP, TCP, UDP, DNS, HTTP, TLS/SSL, L3 routing, Web Application Firewalls, DDoS Mitigation, ADC, CDN

## Software Projects

**Personal Website** – [www.lawrencejbho.com](http://www.lawrencejbho.com) (for additional information and projects)

*Next.js, TypeScript, React, TailwindCSS, Sanity.io*

### Spotify Wrapped Plus

**Feb 2023 – Present**

*React, Express, Node JS, PostgreSQL, GCP, TailwindCSS*

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

- Developed a website that authenticates with Spotify, analyzes personalized listening data, and visualizes listening history trends. Users can also search and play their top songs directly in the app.
- Built a scalable backend architecture resulting in a REST API response time of 140ms using Node.js and PostgreSQL.
- Added interactive charts and graphs using the Recharts library, providing users a unique and engaging way to explore their music listening activity.
- Enhanced the search page's usability by integrating infinite scrolling through dynamically sending Axios requests to retrieve real time data.

### Habby

**Aug 2022 – Jan 2022**

*React, Express, Node JS, MongoDB, TailwindCSS*

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

- Created a full stack web app providing users a full suite of productivity tools including habit trackers, pomodoro timers, web notifications, contribution graphs, analytics, and counters.
- Implemented secure authentication through Passport and OAuth 2.0 allowing users to sign in through Google, Facebook, or Github.
- Structured the REST API using Express and MongoDB, enabling efficient data retrieval and resulting in a 60% increase in website speed.
- Improved the user experience and UI by adding client-side routing and auto caching AJAX calls using React libraries.

## Work Experience

### Software Engineer

**Feb 2023 – Present**

*Freelance - San Francisco*

- Developed a serverless data processing pipeline in Node.js for a small business to run big data analytics on their Square payment processing data.
- Increased operational efficiency and optimized inventory management by building a dashboard to identify customer retention rate, most popular items, and inventory trends using SQL and React.
- Removed costly third party integrations and reduced solution expenses by 98% by using Google Cloud Big Query as a data warehouse and automating daily updates through Google Cloud Functions.

### Systems Engineer

**Mar 2020 – Apr 2022**

*Radware - San Francisco*

- Delivered technical sales expertise in cybersecurity to enterprise companies in Northern California for DDoS Mitigation, Web Application Firewall, Bot Detection, Cloud Workload Protection, and ADC.
- Designed and showcased product solutions to future and current stakeholders through sales presentations, solution demonstrations, architecture designs, and proof of concepts.
- Engineered a hardware and cloud DDoS Mitigation solution for a biopharmaceutical company protecting 11 datacenters with 100Gbps of network capacity.
- Improved the cloud security threat detection of a life sciences company by 48% by implementing an AWS and Azure cloud infrastructure protection solution.
- Achieved 106% of quota in 2021.

**Sr. Systems Engineer**
Feb 2018 – Dec 2019

A10 Networks - San Diego

- Provided technical sales expertise in networking to enterprise companies in Southern California for Application Delivery Controllers, Load Balancers, TLS Inspection, DDoS Mitigation, and Carrier Grad NAT.
- Horizontally scaled an ad tech company's revenue network traffic by 67% using an N-tier load balancing architecture.
- Modernized the load balancing infrastructure of 12 companies by converting their reverse proxies and DNS management to use cloud native technologies in Amazon Web Services.
- Accomplished \$2.75M in sales in 2019 (102% of quota).

**Sr. Professional Services Engineer**
Nov 2015 – Feb 2018

A10 Networks - San Jose

- Designed, planned, and implemented networking and cybersecurity solutions for 80+ clients.
- Spearheaded technical consultations focused on knowledge transfer and best practices to ensure customer success.
- Led team of 6 engineers and SME for SLB, GSLB, AWS, DDoS, Ansible, TLS (encryption), and Authentication.

**Network Support Engineer**
Jul 2013 – Nov 2015

A10 Networks - San Jose

- Troubleshoot, identified, and resolved customer reported L2/L3 & L4-L7 networking issues.
- Recreated customer issues in lab using tools such as Wireshark, Tcpdump, Tcpreplay, Hping, Ixia, and Spirent.
- Utilized scripting in Python, Bash, PHP, TCL for advanced load balancing and data networking.

## Certifications

**AWS Certified Solutions Architect – Associate**
Dec 2019 – Dec 2022

Credential ID: CLYH4RR2HEBQ11CE

## Education & Other

**University of California, Irvine**
Sep 2009 – Jun 2013

Bachelor of Science, Electrical Engineering

**Hobbies & Interests:** Journaling, Acoustic guitar, Basketball, Reading, Spicy ethnic cuisines