

Sharon Lam

Chicago, IL

Software engineer building and maintaining component libraries, design tokens, and documentation that bridge design and engineering. Skilled in React, TypeScript, and Figma with a focus on accessibility, performance, and developer experience at scale.

EXPERIENCE

Software Engineer II, The Trade Desk

Apr 2025 – Present

- Own the architecture of the organization's core React/TypeScript component library and design system — monorepo structure, versioning strategy, visual regression testing, and release pipeline for theme, token, and utility packages — serving multiple product teams across 5 repositories.
- Drove the performance workstream of DataTable redesign, the platform's most data-dense, highest-traffic primitive (144 instances across 5 repos spanning homepage, reporting, and creatives assignment), diagnosed and fixed rendering and data-handling bottlenecks.
- Identified fragmented documentation as the biggest barrier to teams adopting shared components correctly (33 component families, 88 variants, an estimated 30–40% of inbound support requests); hand-built the standard on 3 exemplar components — behavior, interactive controls, copyable code, accessibility notes — then shipped an AI-agent workflow that scaled it to the remaining 30 in 8 weeks, roughly 4x the manual authoring rate.
- Build accessible components by default — keyboard, focus, contrast, and screen-reader support (WCAG/ARIA) — on top of unstyled primitives (Radix, Base UI); enforce design-system and i18n and define AI-assisted development practices.
- Partner with design, product, and engineering to create product roadmap and consolidate new patterns into design systems with requirements coming in as ongoing support requests (~8 requests per month on new features/roadmap).
- Grew external contributions to the shared library ~20% YoY by mentoring feature developers and lowering the barrier to upstream contribution.
- Deepened accessibility practice through industry engagement (axe-con, AccessU) and drove org-wide adoption of automated accessibility testing.

Software Engineer I, The Trade Desk

Jul 2023 – Mar 2025

- Delivered full-stack features end-to-end on a major UI migration, building front-end components and integrating them with RESTful and GraphQL back-end services.
- Reduced .NET SQL query runtime by more than 50% for large report generation by debugging performance issues at the database layer.
- Stewarded client-facing tools and triaged production incidents spanning multiple services, collaborating closely with designers, PMs, and database engineers.

Software Engineering Intern, The Trade Desk

May 2022 – Aug 2022

- Designed and implemented monitoring tools — a visual analytics dashboard and alarms — for the data engineering (ETL) pipeline using Grafana, Prometheus, Databricks, Apache Spark, and Amazon S3.

Technology Analyst, Credit Suisse (Hong Kong) Limited

Aug 2020 – May 2021

- Developed a web-based trading compliance alert system in React.js and Kotlin visualizing trades violating compliance rules across APAC markets.

Summer Technology Analyst, Credit Suisse (Hong Kong) Limited

Jun 2019 – Aug 2019

- Designed and implemented a stress testing application in Java for a trading application, visualizing real-time results with Grafana dashboards.

IT Placement Student, Hong Kong Monetary Authority

Jul 2017 – Jun 2018

- Assisted in launching a company-wide desktop virtualization project upgrading over 1,500 employees' workstations to VMware-supported desktops.

PROJECTS

Middle Truncation CSS Explainer

Apr 2026 – Present

- Co-authored, with Sebastian Zartner (CSSWG invited expert), a formal technical explainer for middle truncation in CSS, reviving a proposal stalled since 2012; accepted by the CSS Working Group in August 2026 for inclusion in the spec ([link](#)).
- Built the reference demo polyfill handling bidirectional text via visual-order reconstruction, and tested existing middle-ellipsis behavior across Chromium, Gecko, and WebKit to document interoperability gaps for implementers.

EDUCATION

M.S., Computer Science — University of Illinois Urbana-Champaign

Aug 2021 – May 2023

B.Eng., Computer Science — Hong Kong University of Science and Technology

Sep 2015 – Jun 2020

SKILLS & PUBLICATIONS

Languages: JavaScript, TypeScript, CSS, HTML, Python, Java, Kotlin, SQL

Frameworks & Tools: React.js, Storybook, Radix/Base UI, Design Tokens, Figma, Tailwind, d3.js, RESTful/GraphQL APIs

Focus areas: Design systems & component libraries, design tokens, accessibility (WCAG/ARIA), developer experience & documentation, AI-assisted developer workflows, cross-team adoption

Publications: Chiang, Lam, Zhang, Chandrasekharan, “Crumbl: An awareness enhancing tool for cookie collection,” SOUPS 2022 | Harb, Lam, “KFC: A Scalable Approximation Algorithm for k-center Fair Clustering,” NeurIPS 2020.