

Haitian Liu

Senior Software Engineer at TikTok · San Jose, CA

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EXPERIENCE

Senior Software Engineer Mar 2024 – Present
TikTok Inc. · San Jose, CA

- **TikTok's Sites.** Built an internal tool, like Lovable but inside TikTok, where agents build anything from a quick demo page to a production back office. Every Site gets a database, storage, scheduled tasks, and its own agent, and doubles as a ChatGPT plugin.
- **TikTok's cloud agent.** Built the agent TikTok's operations teams work with. Its runs survive restarts and wait for a person, and it shipped skills a month before Anthropic's Agent Skills.
- **Campaigns.** Built TikTok's playable campaigns front to back: games for Squid Game with Netflix, the Olympics, and the Oscars, and the platform operations teams launch them from.

Senior Frontend Software Engineer Nov 2022 – Feb 2024
TikTok Pte. Ltd. · Singapore

- Built graphics rendering and visual effects for TikTok virtual gifts, each earning over \$1M a month.
- Built AI-assisted design tools that sped up gift production and tightened the loop between designers and engineers.
- Built no-code and low-code tools for content and user operations, cutting repeated engineering work.

Frontend Software Engineer Aug 2019 – Oct 2022
ByteDance · Beijing

- Built cross-platform growth campaigns for Douyin on iOS and Android, reaching over 300 million user engagements during the 2020 Spring Festival.
- Built the client side of a cloud-based dynamic update system for iOS, Android, PC, and TV.

EDUCATION

Beijing University of Posts and Telecommunications
M.S., Computer Technology 2016 – 2019
B.S., Electronic Science and Technology 2011 – 2015

SKILLS

Agents	Agent architectures, durable cloud agents, agent UI and widgets, MCP, WebMCP, agent CLIs
Engineering	TypeScript, Python, React, Node.js, Electron, PostgreSQL, CLIs and SDKs, cross-platform mobile web
Graphics	Real-time rendering (three.js), visual effects, animation (Spine, Lottie)