

KAI LIN

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SUMMARY

Member of Technical Staff, Software Engineer with 5+ years of experience in application platform, developer tools, CI/CD, and backend development. Led eBay's *Node.js* platform migration to *Kubernetes* and built both internal tools and site-facing modules supporting 500+ apps handling billions of requests daily. Skilled in scalable system design, test automation, and GenAI-powered productivity tools. Passionate about developer experience, machine learning, and system-level performance.

SKILLS

Programming Languages: JavaScript (Advanced), TypeScript, Java, Python, C++, SQL

Frameworks and Tools: Node.js, Express.js, Docker, Kubernetes, Jenkins, Tekton, Git, Linux, WebdriverIO, Playwright, OpenAI APIs, LangChain, RAG

Databases: MongoDB, PostgreSQL, MySQL

WORK EXPERIENCE

eBay Inc. | MTS-1, Software Engineer 02/2026 - Present | San Jose, CA, US
Infrastructure Engineering – Node.js Application Platform

- Drive integration of *AI tooling* into enterprise infrastructure, automating system management and surfacing actionable code feedback for developers.
- Lead technical initiatives around *Node.js* and *AI agents* to improve platform standards and accelerate the software release cadence.

eBay Inc. | Software Engineer 3 07/2022 - 02/2026 | San Jose, CA, US

- Led migration of 500+ *Node.js* apps from VM to *Kubernetes*, enabling reliable, scalable, and containerized deployment.
- Designed CI/CD pipelines (*Jenkins*, *Tekton*) reducing build time by 70% and developer friction by 80%.
- Mentored two junior engineers and worked cross-functionally with experimentation, monitoring, SRE, and release teams to drive platform adoption, streamline deployment, and improve system reliability.

eBay Inc. | Software Engineer 2 02/2021 - 07/2022 | San Jose, CA, US
Engineering Ecosystem & Experience (EEE) – Node.js Application Platform

- Co-developed a Node.js testing framework (*ebay-wdio*) using *WebdriverIO* and drove adoption across all front-end apps.
- Streamlined the release pipeline: reduced app deployment time from 2–3 days to under 3 hours.
- Supported 2000+ developers with platform middleware, tools, testing solutions, and release automation.
- Modernized 100+ shared modules: migrated scopes, added *TypeScript*, and refactored to *async*.

Carina Medical LLC | Software Engineer Intern 05/2020 - 01/2021 | Lexington, KY, US

- Built *QuantLung*, a CT/MRI DICOM/Nifti diagnostic tool with a four-panel viewer, auto-segmentation, and a COVID-19 clinical assistant web tool.

PROJECT EXPERIENCE

AI Slack Assistant – eBay Invent Week, First Place 06/2023 - 07/2023

- Built a GenAI-powered Slack bot using *OpenAI APIs*, *RAG*, and *LangChain*; integrated with internal knowledge graphs and Slack workflows, reducing developer support time by 40%.

Bias Analysis in Image Search Engines 10/2019 - 12/2019

- Constructed 300+ stereotype profiles using Python NLP and Reddit corpora.
- Automated image search scraping via Node.js and Puppeteer across major search engines.
- Identified that ~4% of suggestions matched stereotype patterns; extracted 300+ biased entries via DOM analysis.

EDUCATION

Trine University – M.S. in Business Analytics 02/2024 - Present
• **GPA:** 4.0

University of Virginia – M.S. in Computer Science 08/2019 - 05/2021
• **GPA:** 3.92 | **Honors:** Academic Excellence Fellowship (2019–2020)

Beijing University of Posts and Telecommunications (BUPT) 09/2015 - 07/2019
Joint with **Queen Mary, University of London (QMUL)** – BSc in Telecom Eng. with Management
• **GPA:** 3.76 | **Honors:** First Class Honors degree

PROFESSIONAL ACTIVITIES & AWARDS

- TPC Member (2024 & 2025): CyberC, ALLSENSORS, IOTAI, SENSORDEVICES
- Beijing Outstanding Undergraduate Student (2019)