KAI LIN

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SUMMARY

Senior 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), Java, Python, TypeScript, C++, SQL

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

Databases: MongoDB, PostgreSQL, MySQL

WORK EXPERIENCE

eBay Inc. | Software Engineer 3   07/2022 - Present | San Jose, CA, US
Infrastructure Engineering – Node.js Application Platform
- Led migration of 500+ Node.js apps from VM to *Kubernetes*, enabling secure, scalable, and containerized deployment.
- Designed CI/CD pipelines (*Jenkins*, *Tekton*) reducing build time by 70% and developer friction by 80%.
- Supported over 2000 developers with platform middleware, tools, testing solutions, and release automation.
- Partnered with Global Information Security to lead open-source security fixes across all Node.js modules and apps.
- Mentored two junior engineers and worked cross-functionally with experimentation, monitoring, security, 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 Node.js based testing framework (*ebay-wdio*) using *WebdriverIO* and adoption to all front end apps.
- Streamlined release pipeline: reduced app deployment time from 2-3 days to under 3 hours.
- Modernized 100+ shared modules: migrated scopes, added *TypeScript*, and async refactoring.

Carina Medical LLC | Software Engineer Intern   05/2020 - 01/2021 | Lexington, KY, US
- Built CT/MRI DICOM/Nifti four-panel image viewer and COVID-19 clinical assistant web tool.
- Developed QuantLung: a diagnostic tool integrating imaging, segmentation, and metadata.
- Support patient and study management, CT, MRI lung image auto segmentation, and clinical data integration

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*
- Reducing developer support time by 40%. Integrated with internal knowledge graphs and Slack workflows

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

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, Merit student (2016 - 2018)

PROFESSIONAL ACTIVITIES & AWARDS

- TPC Member (2024 & 2025): CyberC, ALLSENSORS, IOTAI, SENSORDEVICES
- Beijing Outstanding Undergraduate Student (2019)
- First class Scholarship (2017)