

Qi Jin

Chicago, IL

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Summary

Software engineer with 3+ years of experience building internal platforms, automation, and developer tooling. Strong track record of improving reliability, performance, and developer velocity through large-scale migrations, workflow redesign, and measurable system-level optimizations.

Experience

PayPal

Feb. 2023 – Present

Software Engineer

Chicago, IL

- Designed and deployed a consistent-hashing scheduler across 24 hourly buckets, reducing CI queue volume by 93% and average wait time by 99% to under 0.3 seconds.
- Consolidated release and on-demand workflows into template-based pipelines with parallel stages and standardized post-processing, improving runtime by 14%–47% across seven pipelines and saving 47.4 engineering hours weekly.
- Led migration of 400+ iOS CI and release jobs from Jenkins to Harness; built reusable notification components later adopted by 800+ mobile pipelines across iOS and Android.
- Automated repository provisioning, access control, and release tagging for iOS modules through CODEOWNERS-based authorization and release-publish workflows, reducing manual release effort by 50%.
- Built developer-productivity tools, including a WireMock-based Android test framework that cut test execution time by 80% and AI-assisted test-case generation that reduced manual authoring time by 50%.
- Built auto-updated dashboards for jobs, nodes, and utilization during the Jenkins-to-Harness migration, giving teams real-time visibility into rollout planning, execution tracking, and leadership reporting.
- Automated quarterly iXGuard upgrades across 200 iOS build machines, reducing maintenance effort from 2–3 days to under 2 hours while improving consistency and security posture.
- Improved pull-request workflows by automating metadata, version-bump summaries, and review context for iOS repositories, reducing reviewer effort and surfacing dependency changes earlier.

Venmo

May. 2022 – Aug. 2022

Software Engineer Intern

San Jose, CA

- Improved mobile CI pipelines through performance tuning and bug fixes, reducing build times by 20% and improving test reliability.
- Built end-to-end Android UI and API tests covering critical user flows and edge cases, contributing to a 25% reduction in user-reported bugs.
- Deployed automated test suites on AWS Device Farm to expand device coverage and provide actionable execution reports to engineers.

NetEase

May. 2021 – Aug. 2021

iOS Software Engineer Intern

Zhejiang, China

- Developed iOS product features in Objective-C, contributing to a 20% increase in customer usage frequency.
- Refactored app code into MVC architecture, integrated third-party APIs, and added unit tests, reducing development time by 30% and improving maintainability.

Technical Skills

Languages: Python, Kotlin, JavaScript, SQL, C++, Objective-C

Tools: Jenkins, Harness, Docker, Git, Bash, AWS Device Farm

Areas: Automation, Internal Platforms, Release Engineering, Observability, Test Infrastructure, Mobile Systems

Education

University of Illinois Urbana-Champaign

2021 – 2022

M.S., Biological and Computer Engineering

Champaign, IL

Zhejiang University

2016 – 2020

B.S., Biological Engineering

Zhejiang, China