

**Jianxin Qiu**  
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| <b>Education</b> | <b>University of Toronto</b><br><i>Master of Engineering in Computer Engineering</i>                            | Toronto, Canada<br>2022 – 2023 |
|                  | <b>Beijing University of Posts and Telecommunications</b><br><i>Bachelor of Engineering in Computer Science</i> | Beijing, China<br>2017 – 2021  |

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| <b>Employment History</b> |  <b>Software Engineer, TikTok</b><br>2023 – 2026   | Launched the Model Context Protocol (MCP) gateway, where teams can register REST/gRPC APIs as MCP tools, host third-party servers, or implement custom handlers programmatically, abstracting away protocol complexity, authentication, and observability concerns. Scaled the platform to host 9,000+ MCP servers and process 2B+ requests daily, serving as the foundational infrastructure for AI tool integration across all engineering teams.<br><br>Engineered the AI Sandbox platform on the serverless infrastructure to enable on-demand, ephemeral environments for AI agents with configurable lifetimes and per-instance routing. Built a runtime daemon handling remote command execution, process lifecycle management, port forwarding, and browser automation. Scaled to serve 40,000+ cores daily.<br><br>Maintained the serverless platform, including its control plane, build system, and data plane components. Unified on-prem and cloud control planes into a single codebase and migrated metadata for 4,000+ functions, reducing maintenance overhead and accelerating new feature delivery. Engineered CronJob-on-Serverless to enable existing batch workloads to run serverlessly, solving challenges around custom container images, distributed scheduling across multiple data centers, and seamless integration with existing Kubernetes workloads. |
| <b>Past Internships</b>   | <b>ByteDance</b> · Worked on Lark Messenger's cross-platform Rust library. Introduced new product features to the calendar module, improved codebase modularity and binary footprint through systematic assembly-level profiling and code refactoring.<br><br><b>Alibaba Cloud</b> · Worked on the ClickHouse database team. Integrated ClickHouse and Apache Flink by developing a high-throughput database connector, achieved over 5x higher throughput over the default JDBC connector.<br><br><b>SmartX</b> · Worked on the distributed block storage team. Enhanced the long task execution module, implemented features like storage backup parallelization, QoS bandwidth limiting, and task status management. |  |

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| <b>Skills</b> | <ul style="list-style-type: none"><li>• C, C++, Rust, Go, Python, Compiler, Linux Kernel, Serverless, Model Context Protocol (MCP), etc.</li><li>• Open-source contributions: contributed to <code>@rust-lang</code>, <code>@rust-analyzer</code>, <code>@rust-osdev</code>, etc.</li></ul> |
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