

Junhao Dong

SOFTWARE ENGINEER

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Summary

Software engineer with 4+ years of experience working on complex distributed systems in various infrastructure roles. Passionate about designing robust, reliable systems at scale with other talented engineers and learning new technologies and tools when needed.

Experience

Meta - WhatsApp

Menlo Park, CA

SOFTWARE ENGINEER

Jul 2019 - Present

- Led development of new privacy settings by working with multiple cross-functional teams to give users more granular privacy controls. A/B tests saw increased privacy setting adoption (5% on Android, 11% on iOS) and increased usage of related features.
- Identified and implemented reliability improvements for a core service by working with client teams to reduce congestion and prioritize critical requests during system failure and recovery. Dampened spikes of 500k+ (50%+) QPS, with better availability for revenue generating use cases.
- Prioritized and drove early adoption of multiple org-wide initiatives for a team of 5, including adding type specs to enable static analysis, and migrating to a new test framework which reduced test runtimes by over 90% (e.g. 60+ min to 5 min).
- Designed and implemented support for non-WhatsApp users to be in WhatsApp groups, unblocking a cross-org project to allow migrating Messenger and Instagram groups to WhatsApp infrastructure.

Toast

Boston, MA

SOFTWARE ENGINEER INTERN (PART TIME)

Feb 2019 - Apr 2019

- Created and integrated with an automation pipeline for Android Espresso tests, enabling developers to move away from a significantly slower Appium-based framework.

Drizly

Boston, MA

SOFTWARE ENGINEER INTERN

May 2018 - Aug 2018

- Implemented a re-designed onboarding flow with automated Salesforce integration, improving the experience for new retail customers and account managers using Ruby on Rails.

Meta - Instagram

Menlo Park, CA

SOFTWARE ENGINEER INTERN

Jan 2018 - Apr 2018

- Built a traffic replay system to predict the performance and correctness of concurrent I/O processing during the migration to Python's asyncio library. Preemptively detected and fixed multiple regressions related to caching and global state contamination.
- Migrated various APIs to enable concurrent I/O within a single thread with Python asyncio, improving API latency by up to 30%.

Toast

Boston, MA

SOFTWARE ENGINEER INTERN

Jan 2017 - Aug 2017

- Built a Java microservice, database schema, and related web pages to manage customer accounts — 50,000+ created in the first two months.
- Designed and implemented a second microservice to support upcoming payment features during online ordering.
- Enhanced internal tooling to query real-time data from client devices to help customer support resolve configuration issues.

CSTUY Hacking Sessions

New York, NY

PROGRAMMING MENTOR, TA

Sep. 2014 - Mar. 2015

- Taught programming concepts to high school students using Java and Processing while providing input for lesson plans and project ideas.

Skills

Languages Erlang, Python, Java, C++, Ruby

Technologies Django, Amazon Web Services, Docker, React, Redux

Education

Northeastern University

Boston, MA

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Sep 2015 - May 2019