

# JOSHUA KAHN

## EXPERIENCE

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### Senior Software Engineer

Google

May 2022 - Present

Cambridge, MA

- Technical lead for critical Google News infrastructure (Java backends), serving >175M monthly active users.
- Designed and built Generative AI demos, presented to VP leadership, spinning up org-wide team of 5 engineers.
- Cleaned up a decade of technical debt by migrating to a new article format without impacting end users.
- Planned OKRs for Google News Infrastructure team.
- Led initiative to reduce server resource footprint; reduced RAM by 70% (JVM tuning), returned >15,500 disks (>4 engineers/year of savings), and lowered outbound network traffic by 34%.
- Coordinated oncall rotation (30-min SLO) of 14 engineers. Trained/recruited new members, maintained schedule.
- Improved search response debugging tooling (Java and C++), decreased payload size by 92%.

### Software Engineer III

Google

Nov 2020 - May 2022

Cambridge, MA

- Migrated 18 Java servers to a modern deployment/containerization framework with zero downtime. Allowed for increased automation and hermetic production deployments.
- Technical lead for a runtime server-flag deployment mechanism, used by >40 engineers. Improved safety and performance through better Guice scoping.
- Rewrote Java backend code to be deeply asynchronous, reducing failure modes, and improving response latency. Received two internal company-wide awards (code health, and system performance).
- Key contributor to Google News Showcase, a \$1 billion investment in news content.

### Software Engineer II

Google

Jul 2018 - Nov 2020

Cambridge, MA

- Designed and implemented solution (backend and map reduce) for GDPR user age compliance.
- Wrote backend search implementation for Google News' COVID-19 dashboard.
- Implemented compliance oversight for EUCD, handling >100,000 articles/second.
- Hosted successful intern, led a full-stack integration (Android & backend) of finance data into Google News.
- Contributed to internal Java asynchronous frameworks and code generation tooling, used by hundreds of services.

## EDUCATION

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**M.S. Computer Science**, Georgia Institute of Technology

Specialization in Interactive Intelligence (Applied AI)

Jan 2019 - May 2022

**B.S. Computer Science & Engineering**, The Ohio State University

Specialization in Artificial Intelligence

Minor in Business

Honors: Magna Cum Laude

Aug 2014 - May 2018

## SKILLS

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Java (11 LTS), CI & CD, RPCs, Proto Buffers, Dependency Injection (Guice), Python, C/C++, Spanner (SQL/ORM)  
Engineer development/mentorship (junior through senior levels)