Senior Software Engineer — Distributed Systems (US)

Company: Google

Role family: SWE | Seniority: Senior | Location: United States (multiple locations)

Source (public posting): https://careers.google.com/jobs/results/143949380548731590-senior-software-engineer/

Cluster demand (ground-truth): {"SWE": 0.75, "MLE": 0.1, "DS": 0.1, "QD": 0.05, "QR": 0.0}

Reconstruction method: normalized sections + paraphrased responsibilities/qualifications for QA use.

ROLE SUMMARY
You will design and build large-scale software systems for cloud/distributed products. The focus is core engineering: reliability, performance, maintainability, and scalable architecture.

KEY RESPONSIBILITIES
• Design, implement, and operate distributed services with strong SLAs and observability.
• Lead technical design reviews; break down ambiguous problems into deliverable milestones.
• Improve performance and cost efficiency through profiling, tuning, and architecture changes.
• Build high-quality APIs and developer tooling; enforce testing and release discipline.
• Collaborate with product, SRE, and cross-functional engineering teams.

REQUIRED QUALIFICATIONS
• 5+ years professional software development experience.
• Experience with software design/architecture and production operations.
• Strong CS fundamentals and proficiency in at least one systems language (e.g., Java/C++/Go).

PREFERRED QUALIFICATIONS
• Experience with distributed systems, storage/compute infrastructure, or large-scale networking.
• Experience integrating ML components as dependencies (serving, feature retrieval, monitoring).