

JULIAN MERCER

SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Software Engineer with 9+ years of experience designing reliable services and developer platforms at Google, Microsoft, and Amazon. Applies strong data-structure, algorithm, and system-design fundamentals to improve scale, quality, and engineering velocity.

CORE SKILLS

Data structures | Algorithms | System design | Java | C# | Python | Distributed systems | APIs | SQL | Cloud infrastructure | Testing | CI/CD | Observability | Performance engineering | Reliability

PROFESSIONAL EXPERIENCE

Senior Software Engineer Google, Mountain View, CA

Jun 2021 - Present

- Designed a distributed scheduling service handling 2.7M jobs per hour, improving successful completion from 99.2% to 99.93% under sustained production load.
- Replaced an $O(n^2)$ allocation path with indexed priority queues, reducing p99 scheduling latency 71% at peak load and preserving headroom during traffic spikes.
- Led system design for regional failover and automated recovery, reducing customer-visible downtime 64% year over year and standardizing recovery drills.
- Built capacity models and autoscaling controls that lowered annual compute spend \$4.6M while preserving latency targets.
- Mentored nine engineers and introduced design-review standards that reduced major post-launch corrections 33% while spreading ownership of core scheduling systems.
- Coordinated a six-team migration plan that moved 84% of scheduled workloads with no customer-visible interruption.
- Defined service-level objectives and capacity thresholds for six critical services, reducing repeat availability incidents 32%.

Software Engineer II Microsoft, Redmond, WA

Apr 2018 - May 2021

- Developed C# services for identity synchronization across 38M enterprise accounts, sustaining 99.98% availability through regional failures and dependency incidents.
- Implemented partitioning and backpressure that increased safe event throughput 2.4x without additional infrastructure during peak identity traffic.
- Created property-based and integration test suites that found 47 edge cases before production and cut regressions 29%.
- Owned incident reviews and reliability actions for six services, reducing repeat severity-two incidents 41% and clarifying follow-through for every corrective action.
- Created load-test scenarios from production traces, identifying three bottlenecks before a 2x traffic expansion.
- Introduced consumer-driven contract tests across 14 APIs, cutting integration regressions discovered after deployment 41%.

Software Development Engineer Amazon, Seattle, WA

Jul 2015 - Mar 2018

- Built Java order-routing services processing 55M daily requests during seasonal peaks with no capacity-related outages under failover tests.
- Reduced database write amplification 36% through data-model and batching changes, saving \$780K annually while maintaining order-routing consistency in production.
- Automated deployment verification and rollback checks, shortening release windows from 90 to 34 minutes and giving on-call engineers safer recovery paths.
- Refactored shared routing libraries used by 12 services, eliminating 18 recurring defects and simplifying onboarding.
- Mentored five engineers through design reviews and incident follow-ups, improving ownership of production changes and recovery plans across subsequent production releases.

EDUCATION

B.S. in Computer Science, University of Illinois Urbana-Champaign, Champaign, IL

CERTIFICATIONS

Google Cloud Professional Cloud Developer | AWS Certified Developer - Associate | Microsoft Certified: Azure Developer Associate