

Gabriel Raphael Garcia Montoya

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Backend infrastructure engineer specializing in distributed systems, NewSQL storage, and cloud architecture. Proven track record leading high-impact migrations for petabyte-scale data, enabling \$50M+ quarterly revenue platforms, and delivering \$10M+ in annual cost savings while maintaining 99.99%+ availability

Professional Experience

Pinterest, Manhattan, NY

Staff Software Engineer (Storage Services and Data Engineering)

09/2022 - Present

- Designed and maintained storage-as-a-service platform serving 100+ teams across 40+ databases and 700+ tables, reducing provisioning time from weeks to hours.
- Led a team of 12 to migrate petabyte-scale systems (10M+ QPS) from HBase to TiDB, achieving **\$10M+ annual savings** with zero downtime; mentored 3 engineers to promotion.
- Improved Ads Guidance **availability from 99.97% to 99.999%** and reduced latency by 36% via infrastructure migration and query optimization
- Led Third Party Ads storage platform launch, supporting **\$50M quarterly revenue run rate and unlocking \$6M Q4 revenue**; reduced operational costs \$50K annually through strategic TiDB-to-Kafka re-architecture.
- Unified 15+ fragmented Sharded MySQL access patterns into a single framework, **adopted by Pinterest's largest core data use cases** and reducing operational complexity across multiple organizations.
- **Founded a new storage platform team**, establishing SLOs, incident response procedures, on-call rotation, and standardized migration playbooks.
- Rescued critical revenue product launch by **improving throughput capacity by 200%** via re-architecting storage layer to Kafka within 1 week, preventing launch delay before quarterly earnings call.
- Authored 15+ design documents shaping team roadmap and **influencing vendor (PingCap) roadmap** with 4 major feature requests.

Google, Sunnyvale, CA

Software Engineer (Authorization Services, Internship + Fulltime)

06/2019 - 09/2022

- Designed a company-wide **Multiparty Authorization (MPA) system for 20+ surfaces**, enforcing consensus-based access for high-value infrastructure.
- Led cross-organizational integration efforts **securing 100+ critical infrastructure endpoints**, partnering with platform teams to enforce zero-trust security standards.
- Extended Cloud IAP to support third-party authorization webhooks, **reducing authorization latency by 25%**.
- Built and **consolidated 10+ security workflows** detecting unauthorized tool usage and privilege escalation vulnerabilities.

EDUCATION

Computer Science, June 2020

University of California, Santa Cruz

Language and Technologies

Languages: Java, Golang, Python, C

Databases: MySQL, TiDB, NewSQL, HBase, NoSQL, RocksDB, Redis, Memcached

Infrastructure: Kafka, CDC, Flink, Iceberg, Hive, Stream Processing, Batch Processing, EKS, OLTP, OLAP