






A detail-oriented Site Reliability Engineer with a proven track record for driving production transformations and making critical launches—such as Firestore’s [MongoDB-compatible API](#)—successful. Never hesitant to dig deep into technical complexities while maintaining a cross-functional perspective to drive system improvements that pay dividends long-term.

-  L5 SWE-SRE, GCP Firestore & Memorystore (5yrs)
-  Squad tech lead, 4–5 engineers
-  M.S./B.S., HPI Potsdam
-  Distributed databases, performance isolation, workload mobility & capacity management
-  Instructor, mentor & intern host

Experience

Firestore & Memorystore SRE **Google, San Francisco, CA** **Aug 2020 – Present**
Senior Software Engineer, Site Reliability (L5) | May 2024 – Present

- **Technical Leadership:** Leading Resilience squad since mid-2023, setting the technical direction for a team of 4-5 engineers. Own roadmap creation, OKR planning, and the execution of critical reliability and efficiency initiatives.
- **Community & Mentoring:** Regular instructor at Google’s internal SRE onboarding course, teaching Production Storage and guiding through practice outages; three-time personal mentor; intern host.
- Led productionization of Firestore’s new MongoDB-compatible API, bringing prototype to production service in its biggest launch in years unlocking \$100M+ in new revenue.
 - Managed cross-functional efforts across monitoring, Service Level Objectives (SLOs), load balancing and configuration automation, enabling a smooth launch to public preview.
 - Collaborated with Core Traffic team to design and build mid-session TCP backend switching integrated into Google’s global frontend, a key reliability improvement that solved load balancing issues for GA launch.
- Memorystore Efficiency Lead authoring annual strategic plans and directing cross-team execution of memory reduction initiatives, realizing \$5M+ in savings to date.

Software Engineer, Site Reliability (L4) | Nov 2021 – Apr 2024

- Designed and implemented automatic load shedding in Firestore’s backend, then drove adoption across the stack. Resulting workload isolation eliminated 50% of all production incidents and let us disband the dedicated subteam.
- Led team execution of GCP-wide workload mobility initiative, implementing automatic cross-region movement & Spanner data sharding to improve disaster resilience and capacity efficiency as one of the earliest adopters in GCP.
- Co-authored and presented the [Firestore White Paper](#) at ICDE 2023.

Software Engineer, Site Reliability (L3) | Aug 2020 – Oct 2021

- Ramped up to primary on-call rotation within three months, significantly faster than team average of 6+ months.
- Designed and implemented adaptive throttling mechanisms for Firestore’s Apache Beam and Dataflow connectors, eliminating fortnightly production outages from isolation failure.

Site Reliability Engineering Intern **Google, London, UK** **Jul 2019 – Oct 2019**
Ads Frontend SRE Team


- Built extensions to automation platform used by 100+ internal services to manage capacity in global load balancer.

ML Engineering Intern **SAP Labs, Palo Alto, CA** **Oct 2017 – Apr 2018**
Conversational AI Team, Innovation Center Silicon Valley

- Improved NLP custom entity extraction accuracy by >10% and simplified tool deployment using Docker.

Education

Potsdam, Germany **Hasso Plattner Institute** **Oct 2014 - May 2020**

- **M.S. in IT-Systems Engineering** (GPA: 1.4/5.0 scale, 1 is best) | **2018 – 2020**
 - Worked as **Graduate Research Assistant** focused on causal structure learning and developed a robust benchmarking pipeline for unsupervised anomaly detection (500+ stars on  [Github](#))
- **B.S. in IT-Systems Engineering** (GPA: 1.7/5.0 scale, 1 is best) | **2014 – 2017**
- **Coursework:** Distributed Data Management & Database Systems, Big Data Analytics, Machine Learning, Deep Learning, Software Architecture, Causal Inference
- **Volunteering:** Co-organizer [HackHPI](#) 2016-2019; President of Mobile Development Club

About Me

- Love hiking, biking, swimming & bouldering. Lifelong guitar player.
- From Germany & grew up in both countries (dual citizen).

Java/Kotlin, Python, Go, SQL · GCP, AWS, Docker, Kubernetes · Firestore, Spanner, Redis, PostgreSQL · Distributed Systems / Databases, Incident Management, SLOs
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