Dana Silver

San Francisco Bay Area
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Eight years experience building products used globally. Expert in high-scale backends and mobile SDKs, well-practiced learning the skills required to meet the problem and working with users to deliver delightful experiences.

Experience

Senior Software Engineer   *San Francisco, CA*
Google   *January 2017 – June 2024*

Engineer on Firebase Remote Config, Google's feature flagging and optimization product for developers. Remote Config is used by XXXk mobile, web, and desktop apps and touches XXB end-user clients daily.

Technical Leadership

- Developed and maintained Remote Config's Android SDK as its tech lead for 4+ years, leading its growth by billions of daily active installs. The open source SDK ([GitHub](#)) is found in XXB end-user clients and is consistently one of the most used SDKs in the Play Store. Beyond direct contributions, I advised new feature development, mentored contributors, and supported users directly on GitHub, Slack, and via Firebase support cases.
- Led a group of engineers across three teams to build the cross-product integrations for [progressive rollouts with real-time monitoring](#) in Remote Config. Partnered closely with engineers and product managers on each team to create work habits that allowed all three teams to collaborate productively. Designed and executed changes to Android and iOS SDKs, Java backends, and Google Cloud APIs, mentoring less-experienced engineers through these processes.
- Contributed technical expertise on mobile SDKs and public APIs to launch [real-time Remote Config](#), a generational product change that reduced end-user update times from 12+ hours to minutes. Led an API usability study with users, production-readiness for the iOS and Android SDKs, and coordinated a multi-platform, cross-functional launch leading to adoption by XXk apps in under a year.
- Grew the team's collective expertise by frequently giving tech talks on Remote Config's SDKs, backends, and infrastructure – ex. SDK usage, planning for scalability, and using Google's infrastructure tooling.

Individual Contributions

- Scaled an in-production streaming HTTP service written in Java/Kotlin to handle 6x its existing concurrent RPCs with no user impact, enabling a new feature to grow in a compute resource-constrained environment. Became one of our team's few experts on Google's load-balancing stack, JVM tuning, profiling, and monitoring.
- Brought ML-driven personalized configuration to Remote Config, co-inventing [Remote Config personalization](#). Maintained a bespoke multi-arm bandit implementation across batch and streaming Flume pipelines.
- Saved $XMM/y in the team's resource spend leading the turndown of Firebase Predictions. The turndown was recognized by Google Developer leadership as a model product deprecation.
- Represented Remote Config publicly: wrote and recorded a talk for Google I/O 2023, co-authored two blog posts with technical writers, sat on a panel for #AskFirebase, and presented to Google Developer Experts.
- On-call for Remote Config and A/B testing in a <20 min. response rotation. Served as incident commander, primary responder, and postmortem author numerous times.

Software Engineer   *San Francisco, CA*
Twitter   *September 2016 – January 2017*

Software engineer on Fabric, Twitter's developer platform, acquired by Google and merged with Firebase in 2017.

- Launched SDK integrations with 1st and 3rd party products to build Fabric's portfolio of developer tool offerings. Full stack engineer across iOS, Android, React-based front-end, and Ruby/Clojure/Java backends.

Education

Middlebury College   *Middlebury, VT*
B.A. Computer Science   *September 2012 – May 2016*

Computer Science major and Mathematics minor. Senior thesis on [collaborative frameworks for visual analytics](#).

Published Work

[Personalized Application Configuration As A Service](#)   US Patent
Co-inventor, US Patent US20230367581A1   Filed 2021, Iss. 2023

[Ship faster with feature flags](#)   Google I/O
Speaker and author   2023

[Introducing Remote Config real-time updates](#)   Firebase Blog
[Maximize Revenue with Remote Config Personalization](#)   2023
Co-author