

Alec Mouri

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Education

2012-2015

BS Electrical Engineering and Computer Sciences

UC Berkeley

Experience

2016-present

Senior Software Engineer

Google

Since 2018, core maintainer and senior contributor for Android display and UI stack. Currently tech-leading Android graphics projects for Android 12. Details are confidential. Tech lead for Canvas API updatability in Android 11. Designed internal ABI-stable APIs to support updating Hardware UI (HWUI) and Skia more frequently than the Android platform. Built and optimized a telemetry pipeline for assessing Android graphics and display health. Pipeline improvements included 90% data reduction and schema improvements. Launched refresh rate APIs for NDK Choreographer in Android 11. Launched support for 90Hz displays on Pixel 4-series devices for Android 10. Jank reduction through several multi-ppt performance improvements in GLES composition. Continually supported Android partners and OEMs: including Qualcomm, Samsung, Mediatek. Cross-functional collaboration with many internal teams: Skia, Media, Camera, Chromium, Pixel, System UI, Window Manager teams. Android contributions are open source and publicly available: <https://android.googlesource.com/>. Critical tech: Vulkan, Skia, OpenGL ES, C/C++, Java, SQL. 2016-2018: Built internal tools for high-touch support representatives. Tech lead for data migration that led to a UX unification for sales-to-support workflows. Built a database index for fast retrieval of prior customer interactions. Performance and reliability enhancements for push and email notifications. Numerous internal API migrations, bug fixes, end-to-end latency improvements. Critical tech: Spanner, Flume, Java, Protobuf, SQL.

2015

Software Engineering Intern

LinkedIn

Leveraged Play framework to build backend APIs powering LinkedIn Pulse. Built RSS feeds for syndication of Influencer posts and content. Deployed client-side endpoint for sharing to LinkedIn and Twitter. Designed new Avro schemas for responses from API services. Architected new REST services to support these schemas. Coordinated with client and mobile teams to communicate API needs. Critical tech: Scala, Java, Play, Rest.li.

2015

Graduate Student Instructor

UC Berkeley

Teaching assistant for an upper division operating systems course. Led discussion sections and office hours, managed discussion board, proctored exams. Critical tech: C.

2014

Research Assistant

UC Irvine

Investigated image processing methods for segmenting and tracking stem cells. Critical tech: Java, ImageJ.

2013-2014

Reader

UC Berkeley

Graded homework and mentored students for a discrete mathematics and probability course.

2013

Research Assistant

UC Berkeley

Researched symmetries and aesthetics of topological knots.

Activities and Societies

2014-2015

Officer

Eta Kappa Nu, Mu Chapter

Liasion between companies and HKN.

Organized the UC Berkeley Startup fair and assisted in infosession setup

Maintained a photo repository cataloguing society events.

Created a yearbook and a slideshow from these photos.

Promoted infosessions for Industrial Relations.

Managed apparel sales and hosted cookie runs for EECS midterms.