

RICHARD J. DUNN

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Senior Software Engineer with 15+ years of experience developing headline products, both as a technical lead and an individual contributor

PROFESSIONAL EXPERIENCE

Senior Software Engineer **GOOGLE** **2006-2023**

- Developed innovative features for multiple customer-facing products with 10MM+ users
- Experience across full-stack projects, including with corporate partners and external developers
- Technical lead for multiple projects, collaborating with PM/UX as well as mentoring team members

Selected projects:

Senior Engineer **Messages & RCS** **2019-2023**

- Spearheaded development of [Assistant smart replies](#), with 10K+ triggers and 1K+ result shares per day
- Individually wrote Java backend for entire flow from triggering of Assistant to delivery of result over SMS
- Instrumented and performed latency analysis of RCS backend to identify optimizations

Technical Lead, Bot Framework **Allo** **2015-2018**

- Spearheaded development of [Assistant as a chat bot](#), allowing users to interact using natural language
- Individually wrote Go backend server that supported all chat bots in Allo and routed 100K+ messages/day
- Co-led team of 10 engineers that supported bot integrations into Allo.
- Managed feature pipeline while continuing to write large portions of the codebase

Technical Lead, Hangouts API **Hangouts Video** **2010-2013**

- Authored hosting infrastructure and [Javascript API](#) allowing Web apps to run in context of video call and provide additional functionality, with 10K+ app loads per day
- Wrote synchronous YouTube player utilizing API on accelerated time frame to coincide with Google+ launch
- Led team of 6 engineers tasked with writing apps and supporting 1st- and 3rd-party developers
- Presented multiple times at Google I/O

Research Assistant **UNIVERSITY OF WASHINGTON, SEATTLE** **2002-2006**

- Using a dataset of all UW network traffic, analyzed the clients of major P2P networks and proposed a model of client availability for evaluating new P2P network designs
- Co-authored three [peer-reviewed research papers](#), presented one at conference

EDUCATION

Master of Science, Computer Science & Engineering • University of Washington, Seattle • 2002

- Thesis: "The Effectiveness of Caching on a Peer-to-peer Workload."

Bachelor of Science (Honors), Electrical Engineering & Computer Science (EECS)

Bachelor of Arts (Honors), Mathematics • University of California, Berkeley • 1999

- Received Dorothea Klumpke Roberts Prize for Excellence in Mathematics