

Alex King

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EXPERIENCE

Google (August 2017 – Present)

Seattle, WA

Software Engineer III, Compute Engine VM Environment

- Implementing features, microservices, and tooling for [Google Compute Engine](#) virtual machines, focusing on performance, end-user features, and reliability (C++, Go, Python, SQL)
- Domain involves both node-level virtualization technology (e.g. [live migration](#)) and distributed cloud environment (e.g. microservices supporting VMs in a common datacenter)
- Leading continued development of core GCE microservice that enables [Shielded VM](#) and [Guest Attributes](#)
- Led the design and implementation of second-generation automation to proactively predict and avoid VM crashes caused by hardware failure
- Led initiative to revise modeling of customer reliability experience in GCE; designed novel statistical SLI formula

Apple (May 2016 – August 2016)

Cupertino, CA

Software Engineering Intern, macOS Performance

- Independently designed and implemented an internal tool to statistically aggregate application usage patterns to streamline and enhance the testing process for macOS (Python, Swift)
- Based on work completed, potential impact and presentation performance, selected by VP of Software Engineering Programs to present to [SVP of Software Engineering](#) and his team

Nordstrom (June 2015 – August 2015)

Seattle, WA

Software Engineering Intern, Ecommerce

- Designed and prototyped a “Digital Assistant” software service for Nordstrom stores (Node.js, React, MongoDB)
- Based on speed of iteration and strength of demo, selected by Ecommerce Engineering Director to present project to VPs of Technology

EDUCATION

Tufts University (September 2013 – May 2017)

Somerville, MA

Bachelor of Science *summa cum laude* (3.91 GPA), Computer Science

Teaching Assistant ([Programming Languages](#), [Data Structures](#))

SKILLS

- Global software systems, virtualization, reliability engineering, analysis, communication, teaching
- **Languages:** C++, Python, Go, SQL, Swift, Standard ML
- **Writing:** Acute technical and editorial capabilities; blog content featured on Mashable, ZDNet, Hacker News Daily Top 10 and many others