

# Sidharth Kulkarni

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## EXPERIENCE

**Software Engineer III at Google** (Los Angeles, CA) June 2020 – Present

Maintained a distributed service for producing reports for highest paying customers of Google Ads.

- Overhauled the report localization system, allowing reports to rapidly reach global markets.
  - Designed a new system which saved template authors 10x the time on configuring localization.
  - Currently in production with 10,000+ messages translated into 15 languages.
- Drastically reduced resource usage during outages by designing a complex report deferral system.
- Led the launch of brand reporting on Video View Campaigns, a new critical YouTube ad product.
- Won “Demo Dazzle” award for prototype of Generative AI-based report summarization tool.
- Owned a complex templating and rendering engine for Google Sheets and Slides.
- Administered infrastructural Google Cloud projects to manage authorization and authentication.
- Improved distributed query performance by analyzing queries to identify bottlenecks.
- Increased efficiency of template authors by creating add-ons for Google Sheets and Slides.

**Research Assistant at TGen** (Phoenix, AZ) Sept. 2017 – May 2019

Assisted with bioinformatics research at Translational Genomics Research Institute.

- Developed a system to predict peptide abundance by giving RNA folding data to a convolutional neural network.
- Achieved 20x speedup in a preprocessing step in a genomic pipeline by writing performant C code.
- Received “Outstanding Poster Presentation” at the annual Helios symposium.

**SDE Intern at Amazon** (Tempe, AZ) May 2018 – August 2019

Developed and shipped an example e-commerce application to demonstrate correct use of Amazon’s fulfillment APIs

- Wrote Java using the Spring framework for the backend.
- Wrote HTML/JavaScript/CSS for the frontend.

**Research Assistant at ASU** (Tempe, AZ) Sept 2013 – May 2018

Funded for Summer 2017 and Fall 2017 by Fulton Undergraduate Research Initiative.

- Developed a system to determine eligibility for clinical trials through parsing electronic health records.
- Experimented with various semi-supervised techniques to segment robot movement data.
- Presented a poster at the 2017 Fall FURI Symposium.
- Wrote Java code to manipulate first-order logic and lambda calculus expressions.

## EDUCATION

**M.Sc. in Computer Science**, 2020, GPA 3.94

**B.S. in Computer Science**, 2019, GPA 3.94

Barrett the Honors College at Arizona State University, Tempe, AZ

## RELEVANT COURSEWORK

**STP 598** Topics in Machine Learning — **CSE 412** Database Management — **CSE 466** Computer Systems Security

## SKILLS (all with 5 or more years of experience)

Languages: C, C++, Java, Rust, Ruby, {Java,Type}Script, Python, SQL, L<sup>A</sup>T<sub>E</sub>X, Nix, and more

Technologies: Linux, git, Kubernetes

Strong foundation in Machine Learning and Natural Language Processing