

# Phillip Mestas

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## **RELEVANT EXPERIENCE**

Software Engineering Intern, Google Inc., Seattle, WA

2019

- Designed and implemented a stateless RPC component for making canonical Google Compute Engine end-to-end test framework functionality useful to other teams using Python and proprietary Google technology.
- Incorporated key software engineering concepts such as extensibility, testability, and maintainability in a real-world solution.
- Onboarded and deployed two key utilities used by about 2,000 test targets into a custom RPC component and rolled them out to the test framework.

Engineering Practicum Intern, Google Inc., Mountain View, CA

2018

- Created a monitoring dashboard for the Google Play Suggest pipeline that runs on Google infrastructure using a Python server, allowing the team to visualize jobs that have been run and quickly identify and address issues with the pipeline.
- Designed and implemented Google Play Suggest server functionality that improves filtering of suggestions at scale, while also providing users with higher quality suggestions.
- Used C++ and Google technology best practices to perform major refactors on the Google Play Suggest backend, making the code safer as well as easier to read and maintain.
- Worked on a distributed backend system, writing code optimized to reduce latency and scale to hundreds of millions of users.

Research Assistant, Niemeyer Research Group, Corvallis, OR

2017-Present

- Worked part time during school and full time over the summer as a member of Dr. Kyle Niemeyer's Thermal-Fluid Sciences research group at Oregon State University.
- Developed Python software to simplify complex models for combustion reactions using graph algorithms.
- Conducted experiments to compare the effectiveness of various chemical kinetic model reduction algorithms.
- Presented a paper to other researchers at the WSSCI Fall Technical Meeting.

Teaching Assistant, Oregon State University, Corvallis, OR

2017-Present

- Helped students understand the material of the introduction to computer science courses at Oregon State University through heading labs and grading assignments.

Vice President, Delta Tau Delta, Corvallis, OR

2016-Present

- Served as a founding father and member of the executive board of the Delta Tau Delta chapter at Oregon State University by managing the organization of events, leading internal operations, and overseeing the administrative board consisting of 12 members.

## **EDUCATION**

BS in Computer Science, Oregon State University, Corvallis, OR

June 2020

GPA: 4.0

## **NOTABLE ACHIEVEMENTS**

Drucilla Shepard Smith Scholastic Award, Oregon State University

2017, 2018, 2019

Waldo-Cummings Award, Oregon State University

2017

Ford Scholar, Ford Family Foundation

2016

3<sup>rd</sup> Place; Business Financial Plan, National FBLA-PBL

2016

1<sup>st</sup> Place; Business Financial Plan, Oregon FBLA-PBL

2016

## **AFFILIATIONS & INVOLVEMENT**

Member, Oregon State University Robotics Club, Corvallis OR

2016-2017