

# William Yang

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## Education

### Duke University

BS IN COMPUTER SCIENCE, BS IN STATISTICAL SCIENCE, MINOR IN MATHEMATICS

GPA: 3.9/4.0

Relevant Coursework: Data Structures and Algorithms, Design/Analysis of Algorithms, Machine Learning, Intro to Operating Systems, Intro to Database Systems, Computer Architecture, Bayesian and Modern Statistics, Statistical Decision Analysis, Applied Stochastic Processes, Statistics, Probability, Advanced Calculus

Durham, NC

Aug 2014 – May 2018

## Work Experience

### Google

Sunnyvale, CA → New York, NY

SOFTWARE ENGINEER, GOOGLE ENDPOINT MANAGEMENT → ADS SERVING INFRASTRUCTURE

July 2018 – Present

- Led design and implementation of multi-step migration with monitoring and testing for ~500k QPS of ads requests to new storage framework (C++)
- Led designs and implementations of multiple features for privacy mandates and new ad offerings (C++)
- Led design and integration of 1M+ QPS of ads serving logs into a new experiment analysis framework
- Implemented and took ownership of a new device policy server designed for thousands of QPS from tens of millions of users (Java)
- Designed cross-app libraries implementing new device management features requiring OS level iOS expertise (Obj-C)
- Designed event logging and analytics solution to monitor server and client events across multiple GSuite iOS Apps (Java, Obj-C)

### Asana

San Francisco, CA

SOFTWARE ENGINEERING INTERN

May 2017 – Aug 2017

- Developed multiple features end-to-end using A/B test framework to determine user impact
- Worked closely with PM to improve app adoption through data driven analysis

### Google

New York, NY

SOFTWARE ENGINEERING INTERN, GOOGLE SLIDES

Jun 2016 – Aug 2016

- Implemented Find and Replace on Slides (JS, Obj-C)

### Duke University

Durham, NC

TEACHING ASSISTANT

Jan 2015 – May 2016

- Led ~30 student recitation sections for the Computer Science course Data Structures and Algorithms, teaching fundamental data structures and programming algorithms using Java
- Presented technical lessons to students and held office hours to debug code and provide advice for students

## Skills

**Programming Languages:** C++, Java, Obj-C, Python, SQL

**Frameworks/Methodologies:** Unix, Unit/Integration/E2E Testing, Data Analysis, Logging/Monitoring, Databases

## Projects

### Glenna

Swift, Node, Express, PostgreSQL

LOCATION BASED IOS BULLETIN APP TO CROWDSOURCE REAL TIME UPDATES AND EVENTS FROM USERS. DEVELOPED WITH 2 OTHER UNDERGRADUATES FOR A COURSE IN DATABASE SYSTEMS.

## Awards

Apr 2017	<b>Finalist</b> , Awarded Finalist status for generating chronological heat maps and alluvial diagrams to visualize travel information from an Expedia data set.	Duke Datafest
Sept 2015 - 2017	<b>1st Place/Runner-up</b> , Awarded 1st place or runner-up 3 times at the annual Microsoft MSFT3c College Code Competition at Duke University	Microsoft
Nov 2014	<b>Grand Prize</b> , Awarded Grand Prize in the Health & Wellness track for <i>Flash Aid</i> , an Android app to crowdsource first aid to emergency medical situations	HackDuke