

# Rishi Dua

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## EDUCATION

### IIT DELHI, INDIA

B.TECH & M.TECH

(DUAL DEGREE)

Electrical Engineering

2010 - 2015 | GPA: 8.5

Teaching Assistant for

Digital Signal Processing

### NTHU, TAIWAN

2012 | Exchange scholarship

## SKILLS

Languages

- Java • Python • JavaScript
- Dart (readability reviewer)

Machine Learning

- TensorFlow • Lucene
- Weka • scikit-learn

## SIDE PROJECTS

Apps on Google Play

- Drinkify, drink recommender
- PaletteArt, a photo editor

React Your Way

Featured on ProductHunt

<https://goo.gl/ayncKg>

Community

- Organized HackBaroda
- Open sourced CMS plugins
- Top 20% on Stack Overflow
- Quora Top Writer

## PUBLICATION

Tunable optical switching

[Optics Express 2017](#)

## AWARDS

- 5 spot, 4 peer bonus at Google
- 3rd in CanSat competition  
40 teams from 28 nations
- All India 386 in IIT-JEE exam  
0.5M candidates
- Won Microsoft Appathon

## EXPERIENCE

### GOOGLE | SOFTWARE ENGINEER

YouTube - Video Ads Creation

Dec 2016 - Present

San Bruno, CA

- First engineer on the front-end of YouTube Director Mix, launched in Sept. 2017 enabling advertisers to create multiple variations from a single video ad on YouTube
- Architected a front-end server for Director Mix, using existing Google Java frameworks
- Implemented features for sharing projects and inviting users, for all Director products
- Enabled failure resilience by sending production traffic in tests and RPC failure injection
- Initiated a 20% project to automate client on-boarding and eliminate back and forth with support teams. This is now part of workflow for all new clients

TechCrunch - <http://tcrn.ch/2fLx8dC>, Business Insider - <http://read.bi/2xlbOpp>

Inbox by Gmail

July 2015 - Dec 2016

Hyderabad, India

- Designed and enabled continuous memory and latency tests for Inbox Android app
- Integrated performance monitoring libraries into Inbox, Calendar, Docs, Sheets, Drive
- Built a tool to visualize performance of mobile apps and send alerts on regressions
- The tool is used by over 50 Android app teams at Google to monitor rollouts of releases

Teaching

- Instructor for Machine Learning with TensorFlow Course (San Bruno, NY, Hyderabad)
- Grow with Google Coach at Oklahoma, an initiative for digital skills training across US
- Instructor for the Applied CS with Android faculty bootcamp at Google India

### NICTA | MACHINE LEARNING RESEARCH INTERN

May 2014 - July 2014

Canberra, Australia

- Fine-grained the friend sensor model, for preemptive trend detection on social media
- Identified central users by modeling network of 20 million users from 2 billion tweets
- Recorded 11 days lead in hashtag use in sensors compared to randomly chosen users

### SONY | SOFTWARE ENGINEERING INTERN

May 2013 - July 2013

Tokyo, Japan

- Performed sentiment analysis of tweets and customer reviews to examine brand equity
- Parsed reviews, investigated TF-IDF scores and visualized branding factors in D3.js

### UW-MADISON | RESEARCH INTERN (KHORANA SCHOLAR)

May 2012 - July 2012

Madison, WI

- Developed Markov models to predict effect of transcription factors on gene expression
- Wrote scripts to automate detection of pivotal sequences from gene expression data

### TEKNOVATES | COFOUNDER

Sept 2011 - Oct 2014

New Delhi, India

- Led the design and development of CMS plugins and themes for over 20 websites
- Delivered an online exam portal and a payment gateway integration module on Drupal