

# Hermish Mehta

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## University of California, Berkeley 4.0/4.0 GPA

- B.S. Electrical Engineering & Computer Sciences; Engineering Mathematics & Statistics
- Courses: *Algorithms II*, *Data Structures*, *Discrete Math*, *Probability Theory*, *Linear Algebra II*
- Experience: *Python*, *Java*, *Git*, *LaTeX*, *JavaScript*, *Swift R*, *ReactJS*, *Bash*
- Honor Societies: *Tau Beta Pi*, *Institute of Electrical and Electronics Engineers–Eta Kappa Nu*

Sept 2017  
→ May 2021

## University of Toronto 4.0/4.0 GPA

- Courses: *Calculus III*, *Linear Algebra I*, *Programming*, *Mathematical Proofs* (during high school)

Aug 2013  
→ May 2017

## EXPERIENCE

### Department of Mathematics, Berkeley *Research Assistant*

- Studying constant factor balanced-cut approximation algorithms in semi-random graphs
- Attempting to improve power of current algorithms by reducing restrictions on inputs
- Working through Berkeley's graduate *Beyond Worst-Case Analysis* class to learn and apply spectral techniques

May 2018  
→ Present

### Department of Electrical Engineering & Computer Sciences, Berkeley *CS 61A Tutor*

- Leading group tutoring and catch-up sessions for the introductory computer science class
- Developed a series of notes, available as a short book, and teaching handouts while instructing similar classes

May 2018  
→ Present

### Berkeley Computational Cognitive Science Lab *Research Assistant*

- Building and refining mathematical and probabilistic models of cognition in Tom Griffith's lab
- Analyzing experimental and real-world big data to inform models and test theoretical results
- Co-first authored paper forthcoming in the 40th Annual Conference of the Cognitive Science Society

Sept 2017  
→ Present

### CodeBase Berkeley *Contract Developer*

- Working with a small team to develop software for clients, Bay Area start-ups, Riffyn and Polymorph
- Used machine learning and linear optimization techniques to predict and maximize ad revenue
- Built an intuitive web-based UI for scientists to visualize data and perform regressions in Python

Sept 2017  
→ Present

### University of Toronto *Research Assistant*

- Studied potential evidence-based positive education interventions under Dr. Jeffrey Graham
- Developed and refined predictive models of student performance using Scikit-Learn

Jul 2017  
→ Aug 2017

### Parlay Ideas and AvatarMe *Developer and Research Intern*

- Researched education technology for the start-up to design a virtual environment to gamify education
- Implemented a live twitter feed into the game, programming in Unity and C sharp
- Prototyped an Amazon AWS noSQL database transition with veteran software engineers

Aug 2016  
→ Dec 2016

## PROJECTS & ACTIVITIES

### IEEE–Eta Kappa Nu Honor Society *Service Officer*

- Helping organize and run outreach events throughout the year geared towards students exploring EECS
- Lead a workshop around data analysis, visualization and statistical learning for interested high school students
- Volunteered for SWE last semester, mentoring four students over 10 weeks to complete an Arduino project

April 2018  
→ Present

### Fiscal Responsibility *CapitalOne*

- Designed an iOS app using swift during the CapitalOne Software Engineering Summit (Invited)
- Worked with CapitalOne engineers to learn swift and work with CapitalOne and MapKit APIs

Jan 2018  
→ Jan 2018

### Courseography *University of Toronto*

- Contributed to a large existing project by working on porting a small component to ReactJS
- Learned Haskell to make simple UI/UX changes, working with Clay, a CSS pre-processing package

Sept 2016  
→ Jul 2017

## AWARDS & HONORS

Student Mentoring and Research Teams (SMART) **Research Fellowship**—*approximately 25 annual recipients*

May 2018

Cognitive Science Society **Oral Presentation Invitation**—*top 30% of conference submissions*

Apr 2018

College of Engineering **Dean's Honors List**—*top 10% of engineering undergraduates*

Dec 2017

Edward Frank **Kraft Award for Freshmen**—*freshmen with 4.0 first-semester GPA*

Dec 2017

Silver Medalist at the **International Chemistry Olympiad**

Jul 2017