Hermish Mehta

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University of California, Berkeley 4.0/4.0 GPA
Sept 2017 → May 2021

- 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*

University of Toronto 4.0/4.0 GPA
Aug 2013 → May 2017

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

EXPERIENCE

University of California, Berkeley *Research Assistant*
May 2018 → Present

- 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 Worse-Case Analysis* class to learn and apply spectral techniques

Department of Electrical Engineering & Computer Sciences, Berkeley *CS 61A Tutor*
May 2018 → Present

- 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

Berkeley Computational Cognitive Science Lab *Research Assistant*
Sept 2017 → Present

- 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

CodeBase Berkeley *Contract Developer*
Sept 2017 → Present

- 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

University of Toronto *Research Assistant*
Jul 2017 → Aug 2017

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

Parlay Ideas and AvatarMe *Developer and Research Intern*
Aug 2016 → Dec 2016

- 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

PROJECTS & ACTIVITIES

IEEE–Eta Kappa Nu Honor Society *Service Officer*
April 2018 → Present

- 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

Fiscal Responsibility *CapitalOne*
Jan 2018 → Jan 2018

- 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

Courseography *University of Toronto*
Sept 2016 → Jul 2017

- 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

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