# HERMISH MEHTA

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## EDUCATION

**University of California, Berkeley** 2017–
- B.S. Computer Science and Engineering (EECS), Exp. Grad. May 2021
- Courses: *Discrete Math and Probability Theory*, *Designing Information Systems,* and *Introduction to Computer Science*

**University of Toronto:** part-time, 4.0 GPA 2013–17

## EXPERIENCE

**Research Assistant** at the *University of Toronto* 2017–
- Developing and refining predictive models of student learning and performance
- Analyzing research data using R, Python and SPSS under Dr. Jeffrey Graham
- Applying supervised machine learning and clustering algorithms with TensorFlow

**Facilitated Study Group Leader** at the *University of Toronto Mississauga* 2013–17
- Helped guide university students to review and master material in courses
- Instructed 10 students twice weekly in *Introduction to Mathematical Proofs* and *Calculus*
- Developed teaching handouts and a series of notes, available as a book on my website

**Developer and Research Intern** at *Parlay Ideas* 2016
- Explored a noSQL database transition, recommending Amazon AWS
- Worked with engineers in strategy sessions to outline and implement the switch
- Quantified product value and examined education literature to suggest directions

**Technical Intern** at *AvatarMe* 2016
- Contributed to developing a minimum viable product for the Toronto startup
- Helped to design and build an interactive, virtual environment to gamify education
- Programmed with Unity and C sharp to implemented a live twitter feed

## PROJECTS

**DineSafe Toolkit,** available on GitHub 2017
- Implemented an API to gather Toronto open data, creating a online database to query
- Data reshaped and analyzed using R libraries
- Entry in the Toronto Data Project competition, winning first for best idea and pitch

**Computational Chemistry Work** at the *University of Toronto* 2017
- Ran Hartree–Fock and perturbation theory algorithms to estimate quantum states
- Used GAMESS, ChemCraft and Avogadro to develop chemistry teaching resources

**Courseography** at the *University of Toronto* 2016
- Helped port the website, a tool to help undergrads plan their degree, to ReactJS

## HONORS & BACKGROUND

**Silver Medalist** at the *International Chemistry Olympiad* 2017
**First Pace** at the *DECA International Career Development Conferences* 2016

**Background:** Python, Java, LaTeX, R, SPSS, Git, Javascript, Bash
**Additional Coursework:** Johns Hopkins *R Programming,* Stanford *Algorithms I & II*