HERMISH MEHTA

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EDUCATION

University of California, Berkeley SEPT. 2017–MAY 2021
- B.S. Electrical Engineering & Computer Sciences, Expected Graduation May 2021
- Courses: *Introduction to Computer Science*, *Information Systems* and *Discrete Math & Probability Theory*

University of Toronto 4.0 GPA AUG. 2013–MAY 2017
- Mathematics and Computer Science, concurrent enrolment in high-school

EXPERIENCE

Computational Cognitive Science Lab at Berkeley *Research Assistant* SEPT. 2017–
- Developing cognitive models for the computational processes in understanding explanations
- Collecting and cleaning real-world data with Python and R to quantitatively inform models
- Applying statistical methods to analyze Big Data from user interactions in Tom Griffith's lab

CodeBase at Berkeley *Developer* SEPT. 2017–
- Working in Dash (Python) to develop a web app for scientific data visualization
- Designing an intuitive UI for users to upload and view the results of statistical analyses in real-time
- Interacting with back-end data analytics using statistical libraries in Python such as Pandas

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

University of Toronto Mississauga *Facilitated Study Group Leader* SEPT. 2015–MAY 2017
- Instructed 10 university students twice weekly in Mathematical Proofs and Calculus courses
- Developed teaching handouts and a series of notes, available as a book on my website

Parlay Ideas and AvatarMe *Developer and Research Intern* AUG. 2016–DEC. 2016
- Helped to design and build an interactive, virtual environment to gamify education
- Programmed with Unity and C sharp to implemented a live twitter feed
- Prototyped a noSQL database transition with engineers, switching to Amazon AWS

PROJECTS

DineSafe ToolKit *A Data Toolkit* MAY. 2017
- Developed a toolkit to gather Toronto open data, creating a online database to query
- Implemented a noSQL database by using MongoDB and created a proof-of-concept Android app
- Reshaped and analyzed data using R libraries; project presented to the City of Toronto

Rover *A Web Application* OCT. 2017
- Created a simple web application using CherryPy, a pythonic HTTP framework
- Used the Google Cloud Computing platform API to transcribe speech and maintain user data
- Applied natural language processing techniques to deliver intelligent user recommendations

Computational Chemistry Work JUN. 2017
- Ran Hartree-Fock and perturbation theory algorithms to estimate quantum states
- Modelled simple inorganic molecules under Dr. Ulrich Fekl at the University of Toronto
- Worked with GAMESS, ChemCraft and Avogadro, along with scientific computing clusters

Courseography *A Student Website* JUL. 2016
- Helped port a component of the website to ReactJS while preserving functionality
- Learned Haskell to make simple UI/UX changes through generating CSS

MISC.

International Chemistry Olympiad *Team Captain & Silver Medalist* JUL. 2017

Experience with Python, Java, Git, LaTeX, R, Javascript, ReactJS, SPSS, Bash