

Labanya Mukhopadhyay

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EDUCATION

University of California, Berkeley- Computer Science 2018-2022

- **Regents and Chancellor's Scholar** (awarded to top 1% of incoming freshman).
- Courses: The Structure and Interpretation of Computer Programs, The Foundations of Data Science, Designing Information Devices and Systems I, Designing Information Devices and Systems II, Machine Learning, Intro to Mathematical Thinking

Evergreen Valley High School 2014-2018

- Graduated magna cum laude with 4.32 GPA.
- Courses: AP Computer Science A, Calculus AB & BC, AP Physics 1 & C, AP Statistics, Multivar. Calc

TECHNICAL SKILLS

Java, Python, HTML/CSS, Javascript, React, Machine Learning, XCode/Swift, SQL, Robotics, R

WORK EXPERIENCE

Data Science Intern, Dieta- 2/2019 - Current - Berkeley, CA

- Run data analysis on time-series based data using R to derive insights and recommendations for patients suffering from Irritable Bowel Syndrome and poor digestive health
- Using machine learning to build an interpretable model to reveal relationships between triggers and symptoms

Computer Science Instructor, Juni Learning- 1/2019 - Current - Berkeley, CA

- Teach students the fundamentals of computer science (loops, conditionals, etc.) through graphical packages in Python and web development (HTML/CSS, JS, SQL, Firebase).
- Sessions are an hour long and project oriented.

Web Developer, UC Berkeley- 9/2018 - Current - Berkeley, CA

- Member of Web Development committee for Regents' and Chancellor's Scholars Association
- Manage RCSA website (rcsa.berkeley.edu) and database using Python and Django.

Research Intern, UCSF Mission Bay- 6/2017 - 8/2017 - San Francisco, CA

- Worked at the Institute for Computation Health Sciences, UCSF, on the project "Characterizing Normal Pregnancy related to Utero Arsenic Exposure".
- Compiled gene expression data from NCBI GEO database using Microarray search tools.
- Performed statistical analysis on data using R programming, GEOquery and limma packages

Founder and President, Hellobots- 8/2015 - Current - San Jose, CA

- Founded Hellobots nonprofit organization to teach robotics to Bay Area youth.
- Providing quality free STEM education to 1000+ students through workshops and programs.
- Partnering with local businesses and brands for grants/sponsorships for funding.

PROJECTS

- **CommunityText**: Community-forming site that collects inspirational texted responses from users (Won Best Use of mLab at Spectra Hackathon 2018)
 - Tools: Twilio API, React, MongoDB mLab
- **Aliment**: iOS mobile application to deliver food to nearby food shelters (Won 2nd Place Overall Hack at Pixel HacksII 2018)
 - Tools: XCode, Swift

AWARDS

- **UC Berkeley Alumni Association Leadership Award**
- **Intel International Science and Engineering Fair 2017 Special Award** from United Technologies Corporation and \$3,000 in UTC common stock
- **FIRST Tech Challenge Dean's List Finalist 2017** chosen of 150 worldwide for FTC robotics team leadership as captain and lead programmer