

EDUCATION

- **University of California Berkeley** Berkeley, CA
Bachelor of Arts in Computer Science and Data Science *Expected Dec 2020*
 - **Relevant Coursework:** Data Structures and Algorithms; Discrete Math; Machine Structures and Architecture; Linear Algebra and Differential Equations; Database Systems; Computer Security; Intro to Artificial Intelligence
 - **Societies and Organizations:** The House (Startup Accelerator); Berkeley Hyperloop; Neurotech at Berkeley; Sigma Eta Pi (Entrepreneurship Society); Space Enterprise Berkeley; Effective Altruism; Alpha Kappa Lambda

EXPERIENCE

- **Iris BCI** Berkeley, CA
Co-Founder *September 2016 to July 2019*
 - **Type using Brain Waves:** Device allows people to type by just thinking of keys that represent alphabets; Marketed to disabled individuals with Locked-In Syndrome, allowing them to type using just their thoughts
 - **Startup Accelerator:** Received funding, working space and mentorship from industry experts, startup founders and VCs. Mentored by Sequoia Capital and Greylock Partners; Find out more at www.freeventures.org
 - **OpenBCI:** Leveraged open-source brain computer interface platform to develop multiple working prototypes
 - Optimized detection of visual and motor imagery based key recognition
 - Implemented open source BCI machine learning classifiers to reach accuracy levels of over 71% for specific thoughts
 - Initially utilized Neuromore's cloud independent biosensor and machine intelligence classifiers for prototyping
 - Utilized: Python, OpenBCI Cyton SDK, PyTorch, Flask, Neuromore
- **Berkeley Hyperloop** Berkeley, CA
Software Engineer *August 2017 to Present*
 - **Systems and Control:** Developed systems and control for acceleration, braking and levitation rig. Leading screw actuation and obtained data on forces in order to spec motor requirements
- **Space Enterprise at Berkeley** Berkeley, CA
Avionics Engineer *August 2017 to June 2018*
 - **Project Karman:** Designing the software and hardware that allows Eureka-1 rocket (surpasses 100-km altitude) to communicate with the ground, determine its position in space, modify its flight, and coordinate the timing of key events such as engine ignition, payload separation, and parachute deployment

PROJECTS

- **AI Text Validator** Berkeley, CA
Ongoing Individual Project *May 2019 to Present*
 - **OpenAI:** Developed a forensic tool that validates if a text was generated using popular language model GPT-2 by OpenAI. It can use any textual input and analyze what GPT-2 would have predicted at each position. This is done using Giant Language model Test Room (GLTR) by MIT-IBM Watson AI lab and HarvardNL
 - **CopyLeaks API:** checks for plagiarism, providing another score on top of GPT-2 validation score. Done so that it can be used by teachers to detect AI text generation and plagiarism.
 - **Tensorflow:** Using Tensorflow.js on Kaggle essay scoring dataset to assist with grading certain types of essay. Currently fixing the integration in order for it to work on a pretrained model.
 - **Technologies Utilized:** Python, Flask, Tensorflow.js, Tensorflow, D3.js, Firebase
- **Shapes Not Colors** Kolkata, India
Mobile Application Developer *January 2015 to April 2015*
 - **iOS application:** Developed a simple iOS game using Swift and Objective-C; Utilized open-source 2D game engine Free Download on iOS App Store (bit.ly/shapesnotcolors).

SKILLS AND ACCOLADES

- **Programming Languages and Technologies:** Python, Java, Solidity, Javascript, SQL, React, Node.js, HTML, CSS
- **Patent:** Method for reduction of graphene oxide to high specific surface area graphene (PatentNo.1179/KOL/2014)