Yash Vardhan Goenka

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EDUCATION

UC BERKELEY
BS in Computer Science and Engineering
Expected Dec 2019 | Berkeley, CA
College of Engineering

CALCUTTA INTERNATIONAL SCHOOL
Kolkata, India
|Took gap year after high school|

UNDERGRADUATE

COURSEWORK
By Summer 2018
CS 61A & 61B - Abstraction, Data Structures and Algorithms
CS 70 - Discrete Math
CS 61C - Machine Structures/ Architechture
Math 54 -Linear Alg and Diff Eq
EE 16A - Designing Information Devices and Systems

EXTRA CURRICULAR
Clubs and Societies
The House - Incubator
Sigma Eta Pi - Entrepreneurship Fraternity
Space Enterprise Berkeley
Berkeley Hyperloop
Neurotech at Berkeley
Effective Altruism
Alpha Kappa Lambda

LINKS

LinkedIn:// **yashvg**
HackerRank:// **yvg95**
Github:// **yashgoenka**

SKILLS

PROGRAMMING
Fluent:
Java • Python • Javascript
HTML • CSS
Comfortable:
Django • Ruby • SQL
MongoDB • C++ • Php
Familiar:
React • Node.js • C
Swift • Matlab

EXPERIENCE

FREE VENTURES | Startup Accelerator
September 2016 - Present | Berkeley, California
- Received funding, working space and mentorship from experts in industry, startup founders and VCs. Pitched to Sequoia Capital and Greylock Partners.
- Find out more at freeventures.org

SHAPES NOT COLORS | iOS App on App Store
Feb - March 2015 | Kolkata, India
- Coded, Designed and Published a simple, tough yet addictive game
- Free Download on iOS App Store (bit.ly/shapesnotcolors)

RESEARCH & PROJECTS

IRIS BCI: TALK USING BRAIN WAVES | Co-Founder
March 2016 – Present | Berkeley, California
- Device allows people to talk using a headset using their brain waves
- Marketed to disabled individuals with Locked-In Syndrome
- It is 10 times faster than current solutions; and about 20 times less costly

PROJECT KARMAN: EUREKA-1 ROCKET | Avionics Engineer
August 2017 – Present | Space Enterprise at Berkeley
- Working towards becoming the first undergraduate team in history to fund, build, and launch a rocket into space (surpasses 100-km altitude)
- Part of Design, Recovery and Avionics teams
- Designing the software and hardware that allows Eureka-1 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.
- Also tasked with ensuring the nose cone, avionics bay, payload, and associated equipment returns to Earth's surface at a safe velocity, bringing the speed of the returning payload from Mach 2 down to a gentle 3 m/s (6.7 mph).

BERKELEY HYPERLOOP | Systems and Control Engineer
August 2017 - Present| Berkeley, California
- Developed systems and control for Acceleration, Braking and Levitation Rig
- Leading screw actuation and obtained data on forces in order to spec motor requirements
- Abstracted data coming in from sensors and designed test procedures

GRAPHENE SUPERCAPACITOR | Private Research
March 2014 – August 2015 | Kolkata, India| Ahmedabad, India
- Built new energy storage device that can charge a phone in 12s
- Developed novel patented method to reduce graphene oxide to graphene
- Funded by National Innovation Foundation and Indian Institute of Management

AWARDS AND RECOGNITION

2015	top15/5million	Silver Award in Intel Internat. Science and Eng. Fair (India)
2014	top27/25000	Nation Innovation Foundation IGNITE Award
2014	Provisional patent	By Dept of Sci & Tech, India - Patent No.1179/KOL/2014