

Gurkaran Singh Goindi

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EDUCATION

University of California, Berkeley 2018-2022 (*intended*)
Berkeley, California, United States

Computer Science and Economics- GPA: 3.71

American International School Lagos 2017-2018

Lagos, Nigeria

International Baccalaureate Program- 40/45

CURRENT ENGAGEMENT

UC Berkeley Electrical Engineering and Computer Science – Research Assistant
Berkeley, CA

April 2019 -

- Working under Prof. Dan Garcia to build 'Autoquiz' – A question-generator program that would first serve as a tool to help students in UC Berkeley's introductory CS class, COMPSCI 10, better understand the concepts and be better prepared for exams, with the long term goal of eventually replacing exams with a dynamic system of electronic testing that creates and gives questions based on the trend of a student's previous answers.

EXPERIENCE

CYST Company Ltd. – Software Engineering Intern
Accra, Ghana

May 2019- Jun 2019

- Worked with concepts of NLP to develop a chatbot in Python-TensorFlow using a Seq2Seq model that responded based on the sentiment of the input
 - Input sentiment analysed using a Naïve Bayes classifier developed for this project
 - Deployed chatbot API (created using Flask) on Digital Ocean

Autonomous Underwater Vehicles at Berkeley – Computer Vision Engineer
Berkeley, CA

Jan 2019- April 2019

- Worked with the computer vision team at AUV Berkeley to help build programs for object-detection for finding and avoiding obstacles, using Python OpenCV

SELECTED COURSEWORK

- ENVECON C1 – Introduction to Environmental Economics and Policy
- COMPSCI 61BL – Data Structures
- EL ENG 16A – Designing Information Devices and Systems I
- COMPSCI 70 – Discrete Math and Probability (Currently Taking)

TOOLS AND TECHNOLOGIES

- Python
- Java
- SQL
- HTML
- CSS
- IntelliJ
- Anaconda
- PyCharm

OTHER RESEARCH PROJECTS

Refugee Responsibility and Sustainability Index- RRSI
Co-Author

2016-2017; 2019

- Devised this index through combining 8 economic-demographic indicators to calculate and give a numerical value of responsibility to countries to either absorb and resettle refugees within their territory or increase their contributions to humanitarian aid efforts around the world.
- Articles: *The International Educator* (<https://www.tieonline.com/article/1978/reflecting-on-the-personal-project-experience>); *International Baccalaureate Community Blog* (<http://blogs.ibo.org/blog/2016/12/07/taking-a-stand-for-humanity/>)
- Currently working on a Python program that computes responsibility given a country and which uses data from the World Bank's API.