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*

CURRENT ENGAGEMENT

UC Berkeley Electrical Engineering and Computer Science – *Research Assistant*   ***April 2019 -***
Berkeley, CA

- 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.

HandyMan Inc. – *Co-Founder*   ***August 2019 -***
Berkeley, CA

- Developing an app on iOS that allows people to easily hire freelance workers in fields as diverse as utility workers, tutors, chauffeurs, babysitters etc.

EXPERIENCE

CYST Company Ltd. – *Software Engineering Intern*   ***May 2019- Jun 2019***
Accra, Ghana

- 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
  - Developed and deployed the chatbot API to a Linux-based server on Digital Ocean's platform, using Flask

Autonomous Underwater Vehicles at Berkeley – *Computer Vision Engineer*   ***Jan 2019- April 2019***
Berkeley, CA

- 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
- Introduction to Swift Programming, by University of Toronto (Taking on Coursera)

TECHNOLOGIES AND TECHNICAL SKILLS

- Python
- Java
- SQL
- CSS
- HTML
- Heroku/ Digital Ocean
- API Development
- Computer Vision
- NLP

OTHER RESEARCH PROJECTS

Refugee Responsibility and Sustainability Index- RRSI   **2016-2017; 2019**
Co-Author

- Developed this index through combining 8 economic-demographic indicators to calculate the numerical value of responsibility of countries to either absorb refugees or increase their contributions to international humanitarian aid
- 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.