Gurkaran S Goindi

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Education

University of California, Berkeley

BA in Computer Science and Economics

Expected Graduation May 2022

Skills

Languages:

Python, Java, SQL, HTML, CSS, Swift

Frameworks/ Environments:

Flask, SSH, Linux

Other:

API Development, NLP

Coursework

- Data Structures and Algorithms
- Introduction to Swift Programming
- Designing Information Devices and Systems I
- Structure and Interpretation of Computers
- Introduction to Environment Economics

Spoken Languages

- English – Native fluency
- Hindi – Native fluency
- Punjabi – Native fluency
- French – Professional fluency

Experience

UC Berkeley EECS — Apr 2019 –

Research Assistant — *Berkeley, CA*

- Building a question-generator platform in Python for questions in Snap!, a JS-based programming language by modifying Snap!'s XML scripts using Python and automating the question-generation process, for UC Berkeley's intro CS class, CS10.

HandyMan Inc — Aug 2019 –

Co-Founder — *Berkeley, CA*

- Building an iOS app using Swift to help connect freelance workers with customers willing to pay hire them on a temporary basis
- Platform for workers to offer their services during their free time and for relevant customers to avail those services

CYST Company Ltd. — May 2019 – Jun 2019

Software Engineering Intern — *Accra, Ghana*

- Built chatbot that responds based on emotion of input using Seq2Seq model using TensorFlow in Python
- Analyzed input emotion using Naïves Bayes classifier developed for project
- Developed and deployed chatbot API to a Linux-based server on Digital Ocean's platform using Flask

Other Research Projects

Refugee Responsibility and Sustainability Index — 2016-2017; 2019

Co-Author

- Developed this index by combining 8 economic-demographic indicators to calculate the numerical value of responsibility for countries to either absorb refugees or contribute to 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.