Kartik Mathur
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EDUCATION-
University of Southern California, Viterbi School of Engineering**,** Los Angeles, CA   Graduation: Fall 2020
Bachelor of Science- Computer Science/Business Administration.   GPA: 3.35

WORK EXPERIENCE
The Fastah Project- Software Engineer Intern   **Summer 2017**

- Fastah is a service that specializes in measuring latency and internet speed data.
- Raised mobile network awareness to fuel the growth of the ride sharing market in India.
- Gained further knowledge and training in JavaScript, CSS, HTML and working in a Linux environment.
- Designed a twitter bot, using the Twitter API, to broadcast live internet weather.

USC Security and Political Economy Lab- Data Analyst   **-Current**

- The Lab creates data sets to help in the research of global economic phenomena.
- Cleaned and merged various data sets.
- Managed the current data resource and gained experience in data analysis.
- Gained further knowledge and training in Rscript.

Marshall School of Business USC- Research Assistant   **Spring 2017**

- Analyzed and acquired data from over 200 subjects.
- Gained valuable insight into higher management practices and theories.
- Collaborated with Professors and Doctorates and delivered concise and valuable reports on acquired data.
- Created applications to assist in the administration of surveys using C++ and Python.

Teacher's Assistant- Data Science and Operations- USC   **Fall 2017-Spring 2018**

- Helped designed the course, construct tests, prepare materials and grade assignments.
- Gained further understanding of optimization techniques in Python.
- Worked with Master's students one-one and helped them gain further understanding of the material.

PROJECTS

- Trade Policy Research Project- Analyzing the prevalence of trade since the 2008-2009 financial crisis. Heavy usage of R, Excel and visualization tools like Gephi and Tableau.
- Avatar Simulator**: -** Hacked and manipulated the Microsoft Kinect sensor to create interactive and personalized displays. Learned and utilized C# and the OpenFrameworks toolkit. Collaborated with a team of Undergraduate and Graduate students.
- Data Spider: - Currently developing a data collection spider that can navigate online databases to create datasets. Intense use of Python and foreign scraping libraries.

TECHNICAL SKILLS

- Languages: C++, Python, R-script, HTML, Oracle PL/SQL, JavaScript, CSS.
- Bilingual- fluency (Speaking, Reading, Writing) in English, Hindi elementary knowledge of French
- Familiarity with various operating systems Mac OS, Windows, UNIX.

STUDENT INVOLVEMENT
Project Manager- USC Aerial Robotics-

- Reached out to create and maintain relationships with our sponsors.
- Utilized Microsoft Excel to manage the club's finances.

Head of Finance- USC Society of Asian Scientists and Engineers-

- Organized events and awareness activities for the support of Asian internationals at USC.
- Worked to promote an overall acceptance of foreign students by holding cultural and professional events.

RELEVANT COURSEWORK
CSCI-104: Data Structures and Object-Oriented Programming (C++)- Understanding of data structures, implementation, usage
CSCI-201- Principles of Software Development(Java)-writing sophisticated concurrent applications with animation and GUI's