**Kartik Mathur**  
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**EDUCATION  
University of Southern California,** Viterbi School of Engineering**,** Los Angeles, CA Graduation: December 2020  
Master of Science - Computer Science Bachelor of Science - Computer Science & Business Administration GPA: 3.4  
 **WORK EXPERIENCE****Google June 2019 -August 2019***Technical Solutions Consultant Intern*

* Worked with the Products, Tools and Operations team to improve the misclassification rate on support interactions.
* Created a tool to analyze support tickets while simultaneously generating better classifications data.
* Interviewed and gathered feedback from managers and engineers across different departments.
* Built a new workflow to decrease the number of miscategorized support tickets by up to 30%.
* Learned more about development in Python Flask, Google AppEngine and Google Cloud Platform.

**InstaSafe Technologies**  **June 2018 -August 2018***Software Engineering Intern*

* Worked for Instasafe a cloud delivered cybersecurity service, on their website and consumer data analytics.
* Analyzed and visualized security data and helped customers understand the security and accessibility of their applications.
* Designed a force graph that shows customers where a serious threat can emerge from.
* Collaborated with Data Scientists and Product Managers to frame a mathematical problem within a business context
* Trained in Java, PHP and Python.

**USC Data Science and Operations January 2018-May 2018***Teaching Assistant*

* Conducted and designed course, created tests, prepared materials, graded and assisted students with assignments.
* Achieved further learning of linear optimization and time-series forecasting and understood use of data in decision making.
* Collaborated with Graduate and PhD students in a workplace setting.
* Gained experience in reinforcement learning and deep learning, frameworks such as TensorFlow or PyTorch.

**PROJECTS  
Facebook Help Center Fall 2018**

* Collaborated with Facebook to research market penetration and mobile use in developing countries.
* Analyzed data from over 30 academic databases to discern key UI/UX solutions for better communication.
* Presented our solutions and recommendations to Facebook researchers and developers.
* Assisted students and post-docs with usage of open-source Facebook tools and datasets

**Medical Resume Database – Children’s Hospital of Los Angeles Fall 2019**

* Created a web application to create medical CV’s with easier addition of scientific publications.
* Implemented an efficient way to manage, search and generate academic and medical CV’s
* Designed a publications search tool to easily add and remove publications with consistent formatting.
* Learned more about Python Flask, Angular and Azure deployment.

**Uber Forums Web Scraping Spring 2019**

* Developed a Web scraper to gather conversation data from the Uber Driver forums.
* Formatted data to be readable for sentiment analysis and usable in academic publications.
* Gained proficiency in Python and libraries SciPy and BeautifulSoup.

**SKILLSProgramming Languages:** Python**,** Java, Scala, C++, SQL, Git, Linux  
**Web Technologies:** HTML, CSS, JavaScript and HTTP, Flask, Google Cloud Platform, AWS  
**Relevant Coursework:** Data Structures, Algorithms, Artificial Intelligence, Machine Learning