

## Kartik Mathur

Ph: (213)421-6370    Site: [https://kartikmat.github.io/modern\\_portfolio](https://kartikmat.github.io/modern_portfolio)    LinkedIn: <https://goo.gl/te5L6j>    Email: [kmathur@usc.edu](mailto:kmathur@usc.edu)

## EDUCATION

**University of Southern California**, Viterbi School of Engineering, Los Angeles, CA  
Bachelor of Science - Computer Science & Business Administration  
Honors: Dean's List USC

Graduation: December 2020  
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 optimization techniques in Python and understood usage 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 Scrapping

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.

## SKILLS

**Programming Languages:** Python, Java, C, C++, SQL, Unix, Linux, Scala

**Web Technologies:** HTML, CSS, JavaScript, Flask, Google Cloud Platform, NumPy, SciPy, SciKit-Learn, Pandas

**Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Artificial Intelligence, Machine Learning