**Kartik Mathur**  
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**EDUCATION-  
University of Southern California,** Viterbi School of Engineering**,** Los Angeles, CA Graduation: Fall 2020Bachelor of Science - Computer Science & Business Administration. Major GPA: 3.4 **EXPERIENCE  
Instasafe- Software Development Intern August 2018**

* Worked for Instasafe a cloud delivered cybersecurity service, on their website and their consumer data analytics.
* Analyzed and visualized security data and helped customers understand their applications security and accessibility.
* Learned and trained in Angular, React, PHP, D3 and Python.
* Designed a force graph that shows points where a serious threat can emerge from, in addition, the product helps users build smart security protocols which can shut down any attack at an earlier stage.

**Fastah Project- Software Engineering Intern August 2017**

* Worked for Fastah a device latency measurement software company and worked on their website and mobile app division
* Raised mobile network awareness, managed growth of ride market and collaborated with companies Uber, Ola.
* Learned and trained in JavaScript, CSS, HTML and working in a Linux environment.
* Designed a twitter bot to broadcast internet weather to better inform consumers about daily data with Linux commands.

**Teacher’s Assistant- Data Science and Operations- USC May 2018**

* Conducted and designed course, constructed 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.

**PROJECTS**

* **Facebook Help Center-** Evaluated existing literature to help Facebook update their understanding of social media behavior and connect conceptual frameworks to improve the website. Along the way learned more about the role of literature in a software development setting.
* **Caption searcher-** Developed an application like Shazam but for YouTube Videos, which helps users search for songs and videos based on audio or dialogue in the video. Learned about React, and advanced JavaScript techniques.
* **Reddit Comments prober-** Invented a React application capable of reading through comments on a reddit post and show a word cloud which would tell what words are likely to generate a better liked comment, completely open source.
* **Data Analysis**: - Created Python scripts which can scrape and discover data from available links and text. Also made data kernels from Kaggle Datasets practicing with Seaborn, Pandas and SciPy libraries.
* **Medical device feedback bot-** Generated a web interface survey for user requirements. Learned PHP and Magento
* **Classroom Assignment Project-** Used Python to design an application to help pair classrooms and students and maximize area while applying optimization concepts. Improved on knowledge of concepts of probability and decision making.
* **Trade Policy Research Project**- Examined data from SPEC Lab ́s IPE Data Resource as well as data from World Bank, IMF and Global Trade Alert. Used Python to inspect the spread of trade. Published work on eliminating global trade barriers
* **Theory of Conflict research**- Surveyed and cleaned datasets to add to USC database using R, Python to support SPEC lab at USC’s works to publish data-backed scholarly sources about the Bar fight theory of war.
* **Task Significance and Organization Behavior research**- Acquired, cleaned and studied human data for the faculty, which helped acquire a large amount of data to contribute to the field of consumer psychology.
* **Roommate Management Portal**- Designed a Web Based application and helped college students assign house chores and split rent. Increased experience with Java Backend, Bootstrap and SQL.

**TECHNICAL SKILLS**

* Programming Languages: C++, Java, C, HTML, JavaScript, CSS, Angular, React, React Native, PHP
* Data Science and Databases: Python, R Script, SQL, MongoDB, Amazon EC2
* Bilingual- fluency (Speaking, Reading, Writing) in English, Hindi elementary knowledge of French
* Familiarity with various operating systems, technical prowess, strong written and verbal communication skills.
* Extra-curriculars: USC Aerial Robotics, Running and Soccer, Volunteer Work: CMCA Environment Conservation

**RELEVANT COURSEWORK**Artificial Intelligence**,** Data Structures and object-oriented design, Software Development, Software Engineering, Algorithms and Theory of Computing, Introduction to Operating systems, Software Engineering, Systems architecture and End-user experience