ANKUR RASTOGI

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EDUCATION

University of Southern California   Los Angeles, CA
Viterbi School of Engineering   Graduation: May 2019
B.S. in Computer Science   GPA: 3.75
Selected Coursework: *Artificial Intelligence, Computer Systems, Robotics, Algorithms*
Programming Languages: *C++ (Experienced), Python (Experienced), Java, JavaScript, HTML, CSS*

PROFESSIONAL EXPERIENCE

23andMe | *Software Engineering Intern*   *May 2018 – August 2018*
- Interned on the Ancestry Engineering team to rebuild 23andMe's Maternal Haplogroup report.
- Integrated updated phylogenetic trees and improved computational methods to achieve **2.8x increase** in report granularity. Developed in Python.
- Collaborated with research and product teams to assess consumer-facing changes and implement updates to the public site.

ESRI | *Software Engineering Intern*   *May 2017 – August 2017*
- Interned on the Map Authoring team to decrease startup times for ArcGIS Pro 2.1 by restructuring core code to implement multi-threaded, on-demand map loading from all project files.
- Developed in C++ and built unit tests using the Visual Studio Unit Testing Framework.
- **Won 1st place in the intern hackathon** for VisAble, a Chrome extension that allows users to contextualize locations mentioned in articles in an interactive 3D map overlaid on the article site.
- Designed and implemented backend using Flask (Python) to process article text, extract location information, and return relevant data using JSON.

USC Kuhn/Hicks Lab | *Undergraduate Research Fellow*   *January 2018 – Present*
- Collaborating with Dr. Jeremy Mason and Dr. Peter Kuhn in the Mathematical Oncology team to analyze metastatic pathways in longitudinal breast and lung cancer data sets. Revisiting existing Markov models.
- Working primarily in Python and C++.
- Integrating genomic, proteomic, and morphological data into machine learning models to better predict breast cancer development, progression, and outcomes in collaboration with Novartis.

EXTRACURRICULARS AND PROJECTS

Tech.LA Fellowship Program | *Co-Founder; Director*   *August 2016 – Present*
- Co-founded an LA-based technology summer internship program (http://tech.la) bringing together undergraduate students from Stanford, Brown, USC, and RIT and **13 startups** across the city.
- Coordinated a team of 7 students to organize a series of summer events featuring technology companies, venture capitalists, and incubators in the greater LA community.

Spark SC | *Director of Special Projects; Core Team*   *January 2016 – Present*
- Worked on the following projects in USC's premier student innovation group (sparksc.org):
- *Spark XM*: Hosted a podcast focused on entrepreneurship and student innovation featuring Thiel Fellows, USC student founders, and other entrepreneurs.
- *Startup Career Fair:* Organized 5 distinct Startup Career Fairs (each with 800+ students, 20+ LA-based companies) to connect companies with USC students.

Viterbi School of Engineering | *Viterbi Student Ambassador*   *May 2016 – May 2017*
- Selected by the Director of Undergraduate Admissions to represent the Viterbi School of Engineering via scholarship interviews, blog posts, podcasts, and on-campus event coordination.

AWARDS AND HONORS

Stanford TreeHacks 2018: Energy Vertical 1st Place   *February 2018*
Presidential Scholar (Half-Tuition Merit Scholarship, Top 2-3% of Class)   *August 2015 – Present*
Viterbi Engineering Undergraduate Fellow (Top 5% of Class)   *August 2015 – Present*