Grace Glenn

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Education

- **Clemson University** — Clemson, SC
  B.S. Computer Science - GPA: 3.90 — *August 2014 – May 2018*
  - **Honors College National Scholars Program**: full merit scholarship received by roughly 15 applicants per year
  - **Honors College Global Policy Scholars**: travel enrichment program to Strasbourg, France and Berlin, Germany focused on studying public policy.
  - **Recognition / Awards**: Departmental Honors, General Honors, Outstanding Junior Award

Experience

- **Squarespace** — Manhattan, NY
  Software Engineer, Machine Learning team — *August 2018 - Present*
  - **Dataproc for Machine Learning ETLs**: Developed framework and processes to use Google's managed Spark resource, Dataproc, for performant processing of medium-sized datasets (160 GB)
  - **Kafka**: Integrated Kafka message publishing into model training to record statistics and events.
  - **Luigi / GCS** : Extended team's Luigi framework to read/write from cloud-hosted (GCS) datasets.
  - **Machine Learning feature modules**: Implemented various library modules to apply AWS Facial "Rekognition" detection, language translation, and semantic vectorization on image and text inputs.
- **Clemson School of Computing** — Clemson, SC
  Research and Teaching Assistant — *January 2017 - May 2018*
  - **Research Assistant - Machine Learning**: Research through machine learning and data science techniques to develop filters for more relevant social media content on political events, including training specialized fastText Vectors and PLDA analysis.
  - **Teaching Assistant - Introduction to C Programming**: Teaching Assistant to two lab sections per semester. Responsible for constructing lectures on lab material, writing scripts to grade labs, and helping students during office hours.
- **Squarespace** — Manhattan, NY
  Machine Learning Intern — *June 2017 - August 2017*
  - **Domain Search Personalization**: Developed model to recommend personalized top level domains (TLDs) for a given search. Model made more relevant recommendations 3,500% more often than the companys former personalization service. Still in use.
  - **Domain Name Generation**: Developed model to generate plausible domain name variations for a given domain name search during hackweek.

Research Projects

- **Senior Thesis on Query Expansion**: Research with Clemson School of Computing to construct and analyze content topics from Twitter, in order to filter more relevant documents (tweets) for political events.
- **Collective Action Modeling (UMass-Amherst R.E.U. 2016)**: Modeled group problem-solving to simulate problem-solving strategies through decision trees and kernel density estimators, based on real human game-play datasets from University of Pennsylvania.
- **Website Page Recommendation**: Prototyped page-recommendation model with custom embedding layer to rank candidate website pages (menu, contact, about, etc) for a given text input (e.g., "cafe website").

Programming Skills

- **Languages**: Python, R, C/C++, Java
- **Technologies**: Kubernetes, Docker, AWS (S3, DynamoDB), Kafka, GCP (GCE, GCS, Dataproc)