Marco E. Hemken

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Highlighted Skills

Data Science: Python with Jupyter Notebooks to load, wrangle and analyze data. I can effectively communicate findings visually and in writing. Interested in using HDFS as well as NoSql databases professionally to power Machine Learning applications using ScikitLearn, Tensorflow and others.

User front end: Python using Django or Flask for building basic user front ends in the browser. I am also proficient at building customized backends on AWS using Ubuntu, Ansible and Terraform.

Employment

UCLA External Affairs, *Data Scientist/Engineer*   Sep 2017 - Present

- Created business critical Tableau reports used by frontline fundraising staff.
- Converted SQL scripts into an automated Data QA pipeline powered by stored procedures.
- Leading the adoption of Python and Jupyter to automate and replace excel spreadsheets.

Converted a data quality assurance suite of sql scripts to a more manageable, version controlled application powered by stored procedures, Python 3.6 and Tableau. End users love it and I spend a fraction of the time running it on a weekly basis.

Spearheaded adoption of Python as a tool for data management and analysis. Where previously we were a SQL (MSSQL Server) only shop, now we use Python powered by AWS SageMaker and Jupyter notebooks. I am the lead change agent and I drive adoption by making key architecture decisions, training analysts on Python and Jupyter and leading the development of our initial use cases.

Spearheaded adoption of VCS. Where none existed before, now we use git and GitLab. This is a side effect of adopting Python. We could not achieve the results we've achieved without git.

UCLA External Affairs, *Liaison*   Feb 2015 - Sep 2017

- Proposed and built a live prototype to improve a business process for submitting Data Processing Requests to the Information Services team.
- Led an effort to incorporate an internal tool for self-service data gathering.
- Trained new and existing staff on how to use Blackbaud CRM for fundraising purposes.

Responsibilities included training frontline fundraising staff on Blackbaud CRM and conducting recurring training. Was also responsible for handling data requests and facilitating projects with Research and Analytics teams.

Academics

UCLA, *BA Sociology*   2008 - 2014

Open Source Contributions

Pandas documentation, *https://www.numfocus.org/project/pandas*	2018
Bokeh documentation, *https://bokeh.pydata.org/en/latest/*	2018