MATTHEW P. CHAMBERLIN

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LANGUAGES:

Python
Java
Scala
Groovy
MATLAB
R

DATABASES:

Cassandra
PostgreSQL
MongoDB
Elasticsearch
TitanDB
Redis

TOOLS:

Spark
Hadoop
MapReduce
AWS
Git
Chef
OpenCV
Mathematica

Python Data Stack: numpy, scipy, pandas, scikit-learn, matplotlib, gensim, theano, NLTK, etc.

EDUCATION:

Bachelor of Science, Physics & Mathematics
(Minor: Computer Science)
James Madison University, Harrisonburg, VA

Honors & Awards: JMU Presidential Physics Scholarship; ΣΠΣ Physics Honor Society; JMU Annual Physics Research Symposium, Best Presentation; ACE (Architecture, Construction, Engineering) Mentor Scholarship

Data Scientist • Gild, Inc. (2013 – '15)

As part of a small data science team, I worked closely with the design and engineering teams to propose, validate and iteratively build data-driven product features for Gild's intelligent hiring platform. I was responsible for conceiving of, prototyping, and productionalizing these features using modern machine learning techniques, scalable databases, and distributed computing systems.

Selected personal projects include:

- Modeled proficiency and pedigree of software developers using profiles aggregated from social media, Q&A boards, and public code repositories
- Developed a document classifier for categorizing occupations of 100M+ resumes
- Built a data ingestion, cleaning, and normalization pipeline for voluminous and diverse data sources using a micro-services architecture
- Developed a job tenure prediction model using social media mining via NLP, combined with hazard regression analysis
- Built recommender systems for assisted job requisition creation and automatic job/candidate matching

R&D Data Scientist • Accenture Technology Labs (2013)

As an analyst in the Cognitive Computing group of Accenture Technology Labs, my responsibilities included:

- Prototyping solutions to client projects using emerging ML methods and data science tools
- Developing proposals for funding research in the cognitive computing space
- Researching and validating various big data technologies for recommendation and use in client projects

Research Assistant • James Madison University (2010 – '12)

I conducted research on the electrical and thermoelectrical characteristics of oxide-nanowire/organic-polymer semi-conductive heterojunctions and thin-film oxides. This research involved profiling growth patterns using SEM, AFM, and spectroscopic ellipsometry as well as designing and building instruments for measuring thermoelectrical properties of these materials. This research lead to several first-author publications.