Hoofar Pourzand

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hoofar-pourzand

SKILLS

Python *H2o API, AWS boto, airflow* *Tensor Flow, Keras*	R *RStudio, SparklyR, H2o* *REST API, CRAN*	C/C++ *RMPI, CUDA, CMetrics* *gcc, cmake*	Bash *RHEL/Ubuntu, RPMs* *git, HDFS, Apache*
SQL *DynamoDB, RedShift* *Code Deploy, Code Commit*	AWS API *ELK stack, S3* *Docker, Amazon EMR*	Javascript *Chrome DevTools, Flow* *Yarn, Postmates*	Java *Hadoop, oozie, Scala* *RapidMiner*

WORK EXPERIENCE

August 2017 – present

DATA SCIENCE MANAGER | ***LOTUS-X GROUP - Philadelphia, PA***

- Developed a variety of Machine Learning Pipelines and managed various stages of the delivery process including post-service stages.
- Performed detailed feature engineering, code logging and automated data-leakage testing.
- Set up automated parallel Data Pipelines for various projects with Amazon SageMaker, AWS Workflow and several other services.
- Delivered **PhillyTalent, Recommendation System API** 07.2018 - 10.2018
- Delivered **Anaheim, Predictive Demand Model for Gas Stations** 10.2018 - present
- Delivered **Welder Classifier, AI-Enabled performance Evaluator, Airgas** 03.2018 - 05.2018
- Delivered **XPhilly, Automated E-Commerce Data ETL** 07.2018 - 10.2018
- Presented **Workshop: State of the Art Streaming Learning with Vowpal Wabbit** 08.2018
- Delivered **PhillyTalent, Recommendation System API** 07.2018 - 10.2018

June 2015 – August 2017

FOUNDER | ***LOTUS INDUSTRIES AND CONSULTING GROUP - State College, PA***

- Conducted testing on the legacy IBM GPFS module, both on Batch and Interactive systems, for R, Python and several other commercial and opensource computing packages.
- Developed new training R Packages for ParallelR and RHadoop for faculty clients.

January 2013 – March 2013

PROJECT MANAGER SCHOLAR | ***GOOGLE - San Francisco, CA***

Led my team to develop a Payment Android App in collaboration with the Google Wallet team, using NFC sensor Technology and Google Wallet APIs for secure transactions and ran a demo to a panel of C-level managers.

September 2011 – June 2015

APPLICATION SPECIALIST | ***PENN STATE INSTITUTE OF CYBERSCIENCE - State College, PA***

- Delivered Statistics Application support and Parallel Computing solutions on a variety of topics and technical levels over the years to the research and industry partners of Penn State computing clusters resources.
- Managed commercial licenses, package versioning and deployment across all clusters
- Performed user account maintenance and access-policy tests and updates.

January 2011 – September 2011

RESEARCH ASSISTANT | ***PENN STATE - State College, PA***

- Prototyped different algorithms for Big(O) evaluation, profiling and complexity analysis.

EDUCATION

August 2009 – December 2012

Master of Engineering | ***Aerospace Eng*** | ***Pennsylvania State University-Main Campus, State College, PA***

- Paper: *Risk Visualization and Uncertainty Quantification*

January 2010 – September 2012
21/30 Cred

Graduate Certificate | ***Applied Statistics*** | ***Pennsylvania State University-Main Campus, State College, PA***

- Subjects: Partial Differential Equations | Neural Networks Control | Estimation Theory

SUMMARY OF PRIOR PUBLICATIONS, AWARDS PROJECTS

2011 – 2017

Penn State | ***Pennsylvania State University-Main Campus, State College, PA***

- 2017 Top 4/32 , AirLiquide, B2B Machine Learning Chapter, Philadelphia
- 2013 Finalist , Princeton Competition, for BeautifulWave
- 2013 National, top 120 University Olympics, San Francisco, CA
- 2013 1st/63 , University Olympics, Penn State
- 2012 2nd, Penn StatSe, for inDistance Android mobile App
- 2012 Full Scholarship, Information Science and Technology Dept. , Penn State
- 2011 3+ CITATIONS, Optimum Vibration Design of Fiber Metal Laminated Panels by Particle Swarm Optimization Algorithm
- 2011 3+ CITATIONS , Free Vibration Analysis of Rotating Laminated Composite Panels Using Finite Strip Method
- 2011 Full Scholarship, Information Technology Services, Penn State

2009 – 2010

MIT OpenCourseWare:

- Pattern Matching and Rule-based Substitution. Published Link
- Storage Allocation and Garbage Collection. Published Link
- Structure and Interpretation of Computer Programs. Published Link

2012 – 2013

Papers:

- H Pourzand, MH Sadr, Optimum Vibration Design of Fiber Metal Laminated Panels by Particle Swarm Optimization Algorithm, International Mechanical Engineering Congress and Exposition, 805-811, ASME 2011. Published Link

ADDITIONAL DETAILS

Code Repositories

- LAN Meetup: Leverage AWS Now Workshops 2017 - present, Published Link
- GitHub Repo 2017 - present, Published Link
- GitHub Repo 2012 - 2016, Published Link
- GitHub Repo 2009 - 2012, Published Link

DevOps

Analytics	DevOps	DevOps/Other	DevOps/Other
Apache Superset	*Docker, Docker Compose*	*Travis CI, Locust, CloudWatch*	*codecov.io, Vault, Slack*
Databricks	*Packer, localstack, readthedocs*	*Talend Data Stream, cloudcraft*	*Jira, Sphinx-docs, LaTeX*