Clayton Dean Blythe

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Personal Blog: deepython.com

PROFESSIONAL PURSUIT

Employ my analytical, communicative, and leadership skills as machine learning engineer to advance the impact of deep learning software on society.

EXPERIENCE

Asurion, San Mateo, CA
- Machine Learning Engineer   March 2018 – Present
- Primary developer for python and client machine learning software within project Luminary, connecting families with their senior loved ones
- Implemented cloud-based solutions on AWS in python for mobile application API's and machine learning backend

Ford Motor Company, Dearborn, MI
- Machine Learning / Artificial Intelligence Scientist   May 2017 – March 2018
- Utilized state of the art machine learning techniques in python, spark, and deep learning for applied research in computer vision, financial lending, and customer interaction
- Lead machine learning project for credit origination on $30B portfolio, implemented REST API to productionalize a .03 AUC improvement, saving four million dollars over a five-year time frame

John Deere Financial, Johnston, IA
- Data Science Intern   January 2017 – May 2017
- Performed complex SQL queries to gather multi-dimensional customer and commercial data for binary classification of default for over one million collections accounts
- Employed algorithms such as logistic regression, SVM, and parallelized random forest within a Hadoop ecosystem, vastly reducing time required for model redevelopment

Vanderbilt University, Nashville, TN
- Computational Nanoscience Research Assistant   Summer 2016
- Utilized computational approach with python, pandas, scipy, Fortran, and numpy to simulate femtosecond-scale high harmonic generation in Helium due to counter-rotating circularly polarized laser fields

University of Maryland, College Park, MD
- National Science Foundation Fellow   Summer 2015
- Developed graphical interface in MATLAB, optimizing Lithium-ion microbattery thin-film deposition
- Received award "Best Oral Presentation" out of two dozen undergraduate researchers
- Research led to a formal presentation at the American Physical Society March Meeting

EDUCATION

- Georgia Institute of Technology - Masters in Computer Science   May 2019
- Central College - BA Physics & Economics, *Summa Cum Laude*   May 2017

SKILLS

- Python, AWS, Terraform, PyTorch, Android, SQL, R, Spark, Java, Tensorflow, Docker, Linux, Git

PROJECTS & HONORS

- Technical Co-Founder of deep learning facial detection video startup built on AWS infrastructure
- Music genre recognition utilizing convolutional neural networks on six-second spectrograms
- Vanderbilt University, University of Maryland National Science Foundation REU | Best Oral Presentation