Brian Bao Nguyen

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EDUCATION

THE PENNSYLVANIA STATE UNIVERSITY
Bachelor of Science
Computational Data Science
Expected May 2019 | State College, PA
College of Engineering
Dean's List (5/6 Semesters)
Cum. GPA: 3.79 / 4.00
Organizations:
Mu Sigma Rho - Stat. Honors Society
Association of Computing Machinery
Asian American Students in Action

COURSEWORK

UNDERGRADUATE
Artificial Intelligence
Computer Vision
Data Structures & Algorithms
Concurrent Programming
Advanced Database Concepts
Statistical Inference

SKILLS

PROGRAMMING
Python • C/C++ • Java • R • MySQL
Spark • Javascript • HTML • CSS

MACHINE LEARNING
Random Forest • LSTM • CNN
Logistic Regression • K-Means Clust.
Hidden Markov Model • NLP

LIBRARIES
pandas • numpy • sklearn
gensim • bokeh • matplotlib

FRAMEWORKS
Tensorflow • Django • keras

SOFTWARES
Tableau • Excel • Github
Agile • Docker • Hadoop

AWARDS

2018	Finalist	ASA Datafest
2018	11th	CodePSU
2017	2nd	Predix Hackathon

LINKS

Github:// **thebrianbn**
LinkedIn:// **thebrianbn**

RELEVANT WORK EXPERIENCE

WISE.IO | Data Science Intern
May 2018 – August 2018 | San Francisco, CA

- Designed a Python grid-search API for use on production models in the stack.
- Made a learning rate scheduler callback for the deep learning module.
- Added gensim natural language processing features to field service recommender system. Resulted in 5.6% increase to recall of similar tickets.
- Tuned metrics used for convolutional neural network ensemble model voting.
- Constructed unit & functional tests for 100% code coverage on Jenkins server.

GENERAL ELECTRIC (GE DIGITAL) | Data Science Intern
June 2017 – August 2017 | San Ramon, CA

- Produced machine learning models to detect anomalies in time series sensor data from industrial assets. Increase of 3.5% to F1 score from previous method.
- Created a methodology to generate ground truth data for various use cases and evaluation. Resulted in complete automation of the evaluation process.
- Invented an issued patent for the new methodology to generalize evaluation.
- Scoped out effectiveness of industrial Internet of Things assets.

EMAGINATION TECH | Network Engineer Intern
June 2016 - August 2016 | Boston, MA & Rosemont, PA

- Set up 5 LAN and VLANs to servers for corporate use.
- Monitored and troubleshot, on average, 6 daily computer and network issues.
- Automated database cleaning and backup via Python scripts.

PENN STATE INFORMATION TECHNOLOGY | Senior Supervisor
December 2015 – Present | University Park, PA

- Coordinating meetings, trainings, and events for 25 student employees.
- Providing effective technical communication, presentations, and demos of software to clients. Held 51 technical consultations.
- Running exploratory data analysis of ServiceNow employee data to analyze effectiveness of employee performance.

LEADERSHIP & ACADEMIC EXPERIENCE

HUMAN TECHNOLOGY INTERACTION LAB | Researcher
April 2018 – December 2018 | University Park, PA

- Deploying a car collision predictor based on human reaction data to connected vehicle system warnings using Tensorflow and sklearn.
- Utilizing a mixture of machine and deep learning models for ensembling.
- Researching in conjunction with the College of Engineering Research Initiative.

THON TECHNOLOGY COMMITTEE | Captain & Developer
April 2018 – Present | University Park, PA

- Developing a quiz platform and database using the Python Django framework.
- Implementing a Redis cache for increase in efficiency of database.
- Working in an agile environment for continuous integration and development.

NITTANY DATA LABS | Project Manager
January 2016 – Present | University Park, PA

- Leading a team of 5 undergraduates to complete their first hands-on data science project involving housing price regression by using Python and Tableau.
- Teaching all aspects of the data science pipeline and technical presentation.