Shuli Jiang

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Education

Carnegie Mellon University (CMU), Pittsburgh, PA — **Expected Graduation Date: May 2019**
B.S. Computer Science — GPA: 3.87/4.00, Dean's List F15, F16, S17, F17, S18, F18

Skills

Language: Python (numpy, pandas, scikit-learn, tensorflow, keras, etc.), Java, Matlab, C, Standard ML
System: Linux/Unix, AWS, etc.

Work Experience (on campus)

CMU Electrical & Computer Engineering, Research Assistant February 2017 ~ May 2017
● Build an "echolocation" platform which generates and analyzes echoes for navigating blind people. (Java, Google Tango platform)

CMU Teaching Assistant August 2017 ~ December 2017
● Lead recitations, hold office hours and grade homework and exams for software engineering course: 15-214 Principles of Software Construction: Objects, Design and Concurrency. (Java)

CMU Machine Learning Department, Research Assistant January 2018 ~ May 2018
● Work with a PhD student on Bayesian optimization research in a multi-fidelity setting, where expensive black-box function evaluations can be approximated by a cheaper function. (Python)

CMU Robotics Institute, Research Assistant October 2018 ~ present
● Improve an imitation learning based end-to-end autonomous driving pipeline in CARLA simulator. (Python, Tensorflow)

Work Experience (industrial)

PreSenso Ltd. **Haifa, Israel**
Software Engineering Intern June 2017~August 2017
● Develop an anomaly detection algorithms benchmark. Develop tools for categorizing and visualizing anomalous data points. Formulate association rules between anomalous data to predict machine downtime. (Matlab, Java)

Morgan Stanley Institutional Securities Technology **New York City, NY**
Technology Analyst (Application Development) June 2018 ~ August 2018
● Develop Data Quality Management (DQM) system that combines empirical rules (functions) and statistical machine learning models (classification, regression, time series analysis) to detect anomalous data in trading. (Python, R shiny)

Project/Research

2018 HackAuton Best Show Prize
Characterizing Allegheny County Opioid Overdoses March 2018 ~ April 2018
● Build an interactive platform and a synthetic prediction tool for characterizing opioid epidemic and predicting the likelihood of opioid overdoses death in Allegheny County. (Python, R shiny)
Code: https://github.com/autonlab/2018.hackAuton/tree/master/DeepGirlNetwork
Publication: https://arxiv.org/abs/1804.08830

OtterTune: Automatic Database Management System Tuning Through Large-Scale Machine Learning November 2017 ~ August 2018
● Work with CMU Database Group on applying machine learning models (LASSO, Bayesian optimization, k means, etc.) to automatically tuning database configuration knobs. (Python, Java)
Code: https://github.com/cmu-db/ottertune
Publication: (Proceedings of VLDB 2018) http://www.vldb.org/pvldb/vol11/p1910-zhang.pdf

CMU AutonLab: Recognition of PNC Product and Service Usage Patterns through Customer Digital Experiences September 2018 ~ present
● Apply machine learning models to identify patterns of customers' banking activities and digital engagement through transactional data of PNC bank. (Python)

Leadership

Director @ Carnegie Mellon University US-China Summit on Innovation and Entrepreneurship

Awards

Buncher Entrepreneurship Award April 2017
Carnegie Mellon University Innovation Scholar May 2017