

Shay Qiuxuan Lin

Graduate Research Assistant - Boston University

Milpitas, CA - Email me on Indeed: indeed.com/r/Shay-Qiuxuan-Lin/0ad5ebec24ed34df

Software Engineer and Data Science practitioner pursuing full-time opportunities.

Willing to relocate to: Santa Clara, CA - san francisco

Sponsorship required to work in the US

WORK EXPERIENCE

Graduate Research Assistant

Boston University - January 2017 to Present

Focus on bilingual text mining in both English and Chinese media for Hariri Computational Institute

- deploy web crawler and relational databases to retrieve social media data
- build Support Vector Machine(SVM) classifiers for preliminary filtering in crowdsourcing experiments
- implement Latent Dirichlet Allocation(LDA) and sentiment analysis to build media or user profiles
- ✓ Graduate Teaching Fellow tutoring R including supervised- and unsupervised learning, network analysis
- May 2017

Data Scientist Intern

- May 2016 to August 2016

Successfully delivered new predictive learning model, performance improved by 2.9%

- designed and experimented novel classification and ranking models for search ads click-through rate
- extracted relevant information from unstructured data using Hadoop, preprocessed in a pipeline(ETL)
- conducted online realtime A/B tests on company mobile app using JAVA

Selected Projects

"Witch": Virtual Makeup Web Application

- ✓ Connect real and virtual world, use case transformed technology objective into a marketable application
- built our dynamic website using LAMP technology on Amazon AWS
- implemented solutions involving database connectivity, security requirements and authentication of clients
- utilized OpenCV with various open-source packages to achieve facial landmark detection

Portfolio Optimization: Machine Learning v.s. Econophysics

- ✓ A novel approach to build portfolios based on hidden structures in real market data
- preprocessed stock metadata using Random Matrix Theory in Econophysics
- visualized high-dimensional data with min. spanning trees and principle component analysis
- experimented various clustering algorithms to explore the intrinsic relationship between stocks

"Computer Vision 101": Image Segmentation

- ✓ Successfully segmented image foreground from background, extended to multi-class classification
- utilized clustering algorithm, dimensionality reduction and edge detection to capture color/landmark features
- implemented Network Flow- Ford-Fulkerson with breadth-first-search(BFS)
- developed Ctypes-python bindings from scratch, boosted performance up 90% in comparison

EDUCATION

Master of Science in Computer Engineering

Boston University, College of Engineering

May 2017

Bachelor of Science in Physics

East China Normal University - Shanghai, CN

June 2015

Germany

Long Cooperation Program in Universitaet Bielefeld - Bielefeld, DE

2013 to 2014

SKILLS

APACHE (Less than 1 year), ASP (Less than 1 year), ASP.NET (Less than 1 year), C# (Less than 1 year), CSS (Less than 1 year), Python (2 years), R (1 year), JAVA (1 year)

ADDITIONAL INFORMATION

Skills and Expertise

Program proficiently in Python JAVA R MATLAB Hadoop Spark git LabVIEW Shell Script Linux

Web Tools including Django(python) C# CSS HTML PHP Apache ASP.NET XML SQL

Multilingual Highly Proficient English Native Mandarin Conversational German

... Chinese group deals app, top online seller of movie tickets and restaurant bookings that has \$18B Valuation, cited techcrunch Jan 20, 2016