Keying (Kevin) Li

(917)-573-5828 | 246 W 108th Street 1E, New York, NY, 10025

keying.li@columbia.edu | www.linkedin.com/in/keyingli

EDUCATION

Columbia University, School of Engineering and Applied Science
M.S. in Computer Science, Machine Learning, 3.6/4.0   Expected Dec.2016
Beijing University of Posts and Telecoms (BUPT), School of Information and Communication Engineering
B.Eng. in Communication Engineering, 89.95/100, Top 10%   July.2015

SKILLS

Languages	Java, JavaScript, Python, C, Matlab, HTML/CSS, SQL, LaTeX
Software and Tools	UNIX/Linux, Google Cloud Platform, AWS, Git, Sckit-learn, VIM, OPNET
Web Development	Angular 2, NodeJS, d3js, GoJS, Django, Flask, Bootstrap, LAMP

WORK EXPERIENCE

Schlumberger   June.2016 - August.2016
Full Stack Software Intern, Omega Transformation Team   *Houston,TX*

- Worked with geophysicists, data scientists, and engineers to build cloud based, seismic data analytics products.
- Built a NodeJS-Angular2 web app, hosted on Google AppEngine, to provide geophysicists with analytic results, data visualization and recommendation on designing seismic processing job flows. Used Angular 2, TypeScript, GoJS, d3js, ExpressJS, Google Cloud: AppEngine, BigQuery, GCS.
- Carried out data processing and analytics in Python on a dataset of 6 million seismic jobs from 48 Houston projects. Techniques: TF-IDF to find important modules, Hierarchical Clustering on graph representation of jobs, etc.
- Improved performance and cost saving of the web app by implementing an asynchronous data caching using GCS

Columbia Law School   January.2016 - June.2016
Software Intern   *New York,NY*

- Designed and realized a new automated approach in Python to download documents from a public website, while effectively avoid getting blocked by the server. This approach is two times faster than the old one, and more robust.
- Determined what tools to use after experimenting with Selenium WebDriver, PhantomJS, Tor, Fake User Agent.
- Executed downloading using AWS EC2, performed troubleshooting and improved performance through trial and error.

PROJECTS

Large Scale Dynamic Events Analysis using Multimedia Big Data   Mar.2016 - June.2016
Research Project@Digital Video and Multimedia Lab, Columbia, Web Developer   *New York,NY*

- This project used traffic cam videos, WAZE reports and Twitter tweets to power a web app, that helps users easily navigate 'where', 'when', and 'what' is happening in the NYC and observe those events in a data driven fashion.
- Designed and implemented the UI. Built a map based data visualization and a image-video player with playback functionality using Leaflet.js and d3js.
- Set up Flask framework backend, which serves the web app and interacts with the PostgreSQL database using Psycopg2.

Music Auto-tagging using Supervised Machine Learning   Feb.2015 - July. 2015
Music Auto-tagging System based on Audio Feature Learning, Independent Project   *Beijing,China*

- Researched on audio & music information retrieval and machine learning theories for multi-label classification.
- Collected labeled music data of 1200 songs, and realized feature extraction of FFT and MFCC feature.
- Designed and realized Music Auto-tagging System independently based on learning models: K-means, logistic regression, kNN, and SVM. Achieving accuracy of 89.7% on major tags.

File Recovery From Shredded File Images   Aug.2013
Hackathon: Mathematical Modeling, Project Leader   *Beijing,China*

- Designed and implemented algorithms: A Sobel operator and Gray Scale based matching algorithm for Chinese file; A Word-Baseline Fitting model for English file.
- Awarded second prize for being able to recover files of one-sided or double-sided, in either language.

LEADERSHIP EXPERIENCE & ATHLETICS

Assistant Manager, University's Track and Field Team, BUPT	Sept.2013 - July.2015
Team Captain, School's Basketball Team, BUPT	Sept.2013 - July.2015
4th Place in High Jump, Beijing Universities' Track and Field Tournament, Beijing	Sept.2014 , May.2015
Vice President, University's Basketball Association, BUPT	Sept.2013 - July.2014