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github.com/acatwang

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| --- | --- | --- | --- |
| **Programming** | | | |
| Python |  |  |  |
| Java |  |  |  |
| Javascript |  |  |  |
| Pig |  |  |  |
| HTML/CSS |  |  |  |
| PHP |  |  |  |
| R |  |  |  |
| SAS |  |  |  |
| STATA |  |  |  |
| **Expertise** | | | |
| Information Retrieval |  |  |  |
| Exploratory Analysis |  |  |  |
| Natural Language Processing |  |  |  |
| Statistics Analysis |  |  |  |
| Data Mining |  |  |  |
| Machine Learning |  |  |  |
| Mechanism Design |  |  |  |
| Web App. Development |  |  |  |
| Data Visualization |  |  |  |
| A/B testing |  |  |  |

**Library**

|  |  |  |  |
| --- | --- | --- | --- |
| **Python** | | | |
| Django |  |  |  |
| Flask |  |  |  |
| NLTK |  |  |  |
| Numpy / Sklearn |  |  |  |
| Panda |  |  |  |
| **JavaScript** | | | |
| D3.js |  |  |  |
| jQuery |  |  |  |
| Angular |  |  |  |
| **Java** | | | |
| Hadoop |  |  |  |
| Solr/ Lucene |  |  |  |
| Android SDK |  |  |  |

**Education**

**University of Michigan** Ann Arbor, MI

M.S in Information Science May 2015

Information Retrieval · Machine Learning · Data Mining · Information Visualization · Java · Database Application Design · Data Manipulation · Exploratory Analysis

**National Taiwan University** Taipei, Taiwan

B.A in Economics, Minor in Math June 2013

Micro Economics · Macro Economics · Advance Statistics · Applied Bayesian Statistical Analysis · Advance Calculus · Game Theory

**Work Experience**

**Linkedin (Contract through Intellipro Group)** Mountain View, CA

Research Analyst/Engineer Jun 2015 - Current

* Design, build and improve analytical tools and data pipelines for investigating user search behavior
* Analyze data to discover how users succeed and fail in their search activities

**University of Michigan** Ann Arbor, MI

Research Assistant Oct 2014 – May 2015

* Performed a multivariate testing on a search engine with different user interfaces and search algorithms
* Implemented exploratory analysis and pattern mining on clickstream data and search log to examine the effect of user interface on user behavior
* Built a search engine that tracks user activities with Django framework

**Marketing Associates** Detroit, MI  
Intern, Business Intelligence May 2014 – Aug 2014

* Built an interactive visualization with Google Map to help marketers understand Connected car data
* Performed exploratory analysis, seasonality analysis and clustering analysis to improve a predictive model
* Built a web crawler to parsed historical stock data from multiple websites

**Internet 2** Ann Arbor, MI  
Project Researcher Jan 2014 – May 2014

* Built a prototype system with Python and MySQL to support constituent relationship management and sales analytics
* Collected, processed and analyzed data from multiple sources using Python

**TMI Holding Corp** Taipei, Taiwan

Intern, Analyst Feb 2012 – Jun 2013

* Identified and analyzed potential investment opportunities by performing market research and competitor analysis
* Analyzed SEO performance and web traffics using Google Analytics

**Projects**

**Trading Agent Competition (TAC) Ad Exchange game**

* Developed a quantitative model and a trading agent in Java for online Ads bidding

**Movie Scripts Search Engine**

* Applied TFIDF similarity measure and BM25 algorithm to index documents
* Used Solr and Lucene to build a vertical search engine for movie script

**UM Credit Union Mobile APP**

* Built a admin dashboard that auto-generate reports and visualization for manager to track performance and review applications using PHP and Javascript

**Analysis on the Correlation between Tweets and Stock Price**

* Performed a regression analysis and geographical analysis on the relationship between tweets activity and stock price trend