

Weiyan Xiang

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PROFILE

A highly motivated Computer Science Master graduate from University College London (UCL), currently work as a software developer. Familiar with Data Analytics, Visualization, Data Mining, ETL, Web development, Machine Learning (Regression, Clustering), Social Network Analysis, Distributed system, Cloud Computing and Information Retrieval.

Proficient in **Java**, **JavaScript (jQuery)** and **SQL**. Have experience in **PHP**, **Python**, **C#**, **ASP.NET** & **R**. Have exposure in Linux, Git, Authentication protocols, bash, pair programming, CI and Agile.

EDUCATION & ACCOMPLISHMENTS

University College London (UCL) – MSc in Web Science and Big Data Analytics 2013-2015

- Computer Science Degree.
- Core modules: Cloud Computing, Information Retrieval, Big Data, Machine Learning and Distributed System
- Projects:
 - Dissertation (**JavaScript**): I³ Search Engine: another interesting way to illustrate **Search Engine**.
 - AWS PageRank (MapReduce **Java** implementation in **Amazon Web Services** EC2)
 - Information Retrieval projects to implement **link analysis** (PageRank and HITS).
 - Stock market prediction based on Twitter (**Regressions & SVM**): build statistic regression model on twitter data to predict real-time stock market.
 - Dolphin **Social Network Analysis** (complex network visualization analysis in **Gephi**)

University of Nottingham – BSc in Computer Science and Management (2:1 Degree) 2009-2013

- Concentration in joint with Computer Science and Business Management
- 2009-2010 **Deans Scholarship** of the University of Nottingham (Top %10 students)
- 2011-2013 **Department Scholarship** in University of Nottingham

CAREER HISTORY & PROJECTS

Ontoit Oct 2014- Present

Software Developer

- Transfer business requirement to various Visualisations using **JavaScript (jQuery, D3.js)**
- Search Engine backend Developing: **Maven**, **Spring MVC**, **Tomcat** and **Apache Storm Cluster (Distributed computing)**. Build **REST Services** in Spring MVC with connection in Database in **Hibernate**.
- **Neo4J HA cluster** as database.
- Design, develop and benchmark (**JavaScript**) API (Namespace) for various requests. Processed in **JSON**.
- Develop static responsive **HTML** (Bootstrap) for company product.
- **Git** and internal tool (mostly private repo though) for chasing performance.

Matrica (Computamatrix Ltd) June 2014- Sep 2014

Software Engineer Intern

- Matrica delivered analytics software for energy consultancy, data management and energy forecasting.
- Optimised software performance (**multi-threading**, concurrency and distributed/ parallel computing).
- Extended previous desktop system (**.NET**) to web side in **C#** using framework of **WCF** and **ASP.NET**.

Project: I³ Search Engine

June 2014- Sep 2014

Dissertation in University College London

<http://i3search.com/2/>

- Deploy algorithm to label each Search results into a sequence of keyword tags.
- Aggregate multi-pages of Google Search results into a clickable **2D and 3D Tag Cloud** (JavaScript and HTML5 Canvas).
- Tag Cloud will be updated based on user's clicking and the result list will be narrowed down. User can find the result they want in a much faster way even with a vague query.
- By putting this web application into use for one month, **retrieve user information** and setup **Machine Learning model** to learn more about the user using various **Regression Models**.

Mitsubishi Motors, China.

Summer 2012

Software Engineer Intern

- **Entrusted with additional Responsibility** of software development.
- Built a home salary-record excel plug-in (**VBA**) as a backup to ensure the security and accuracy of data.
- **Worked in a 5-person team** and successfully achieved the home corporate salary recording system prototype.

Project: Rule-set Aggregation and Visualisation

2012

Project in the University of Nottingham

- Fully designed web-based application, which provided a sequence of data mining techniques such as **parser, ranking, Heat-map and network aggregation and visualisation**.
- **HTML, CSS, JavaScript, MySQL, PHP and R language** used to implement all functionalities.

Agricultural Bank of China (ABC)

2011

Foreign Exchange Trader (Intern)

- **Utilised interpersonal skills** when liaising with colleagues as other branches and dealing with clients from various firms.
- **Improved communication skills and assertiveness** through coping with foreign exchange transactions.
- **Built relationships with representative from various firms** and thus increased overall client base for the bank.