

# Yuheng (Lyle) Li

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## OBJECTIVE

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Full-time Software Engineer

## EDUCATION

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MSIT, eBusiness Technology, **Carnegie Mellon University**, Pittsburgh, PA (GPA 3.95/4.0) 2015-2016  
M.Eng., Data Mining, **University of Chinese Academy of Sciences**, China 2012-2015  
B.S., Electronic Information Science and Technology, **Jilin University**, China (GPA 3.81/4.0) 2008-2012

## TECHNICAL SKILLS

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**Language:** Java, C#, Python, C/C++, JavaScript, HTML/CSS, JSP, Shell Scripting.

**Tools:** J2EE, .NET, WPF, JDBC, Oracle 11g, HBase, MySQL, SVN/Git, Maven, Tomcat, Undertow, VS, Eclipse, AWS, Azure.

**Knowledge:** OOP/OOD, Algorithms, Software Architecture, Cloud Computing, Data Mining, Machine Learning.

## INTERNSHIP

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**Assistant Software Engineer, Chinese Academy of Science(CAS)**, Beijing China 2014-2015

- Responsible for developing GeoVis, a GoogleEarth-like Information Analysis System;
- 1 year+ software development and scientific research with 20+ people team, 10,000+ line codes experiences.

## PROJECTS

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**Twitter Analytics Web Service**, Pittsburgh, PA 02/2016 - now

- Used Hadoop on Amazon EMR to conduct ETL on 300 millions (1T) of raw tweet messages;
- Tuned and optimized HBase and MySQL performance to serve complex read queries;
- Built a RESTful web application running on high performance non-blocking Undertow server as frontend;
- Built a dedicated in memory key value store from scratch to support fast random access.

**Carnegie Financial Web Services for Mutual Fund Transaction**, Pittsburgh, PA 01/2016 - 02/2016

- Developed a three-tier RESTful Web application with Java J2EE, JSP, Bootstrap, Tomcat and MySQL;
- Utilized Atomic Transactions to ensure the atomicity and consistency of fund transactions in DAO design;
- Implemented MVC design pattern for authentication control, role-based access control and fund operations;
- Analyzed and measured the performance and availability of the web service with Apache JMeter.

**GeoVis Information Analysis System**, Beijing China 08/2014 - 05/2015

- Developed a software plugin with C#, WPF, Oracle 11g and SVN based on a GoogleEarth Like 3D globe;
- Customized 50+ data-driven usercontrols for data visualization, like track simulation, tri-state treeview etc.;
- Enhanced the data visualization effect by implementing an adaptive K-means to cluster spatial and temporal data from different altitude scales, leading to real-time data rearrangement and visualization.

**Web Services Load Balancing with Horizontal Scaling**, Pittsburgh, PA 01/2016 - 02/2016

- Utilized both AWS and Azure to programmatically control resources in response to demand;
- Optimized rules for AWS Auto Scaling Group to solve the unpredictable sudden request surge;
- Implemented load balancer with CPU-weighted round-robin scheduling and health check mechanism in Java.

**Twitter based Entity Linking System**, Beijing, China 02/2015 - 06/2015

- Developed an entity linking system with C#, WPF, Twitter REST APIs, Wikimedia and Hadoop;
- Achieved Twitter mention disambiguation by automatically linking to corresponding Wikipedia articles;
- Proposed an improved Entity Linking algorithm, which models multiple features(user preferences, popularity etc.) of wiki entities and levitated the In-KB accuracy by 5% (compared with KAURI) to 90.17%.

## COURSES

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Java/J2EE Programming, Cloud Computing, Data Structure, Data Mining, Machine Learning, Natural Language Processing, Signal and Information Processing, Analog/Digital Electronics, Laws of Computer Technology.

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