

JIACHENG LIU

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EDUCATION

Columbia University

New York, NY

- Master of Science in Computer Science, GPA 3.58

Expected December 2017

Relevant Coursework: Cloud Computing, Algorithms, Database Implementation, Serverless Applications, Operating Systems

City University of Hong Kong

Hong Kong

- Bachelor of Science in Computer Science, GPA 3.87 (First Class Honor)

July 2016

Relevant Coursework: Mobile Computing, Cloud Computing, Data-Intensive Computing, Computer Security

SKILLS

- Programming Languages: Java, Python, JavaScript, Groovy, K, Scala, C, OCaml, Octave, SQL, HTML, CSS
- Toolkits and platforms: MySQL, MongoDB, Spark, Pig, MapReduce, Hadoop, AWS, Junit, Bash, Git, SVN, Jira
- Frameworks: Grails, Spring, Hibernate, Django, Node.js, Bootstrap

WORK EXPERIENCE

1010data,

New York

Intern Developer, Data Management

June 2017 - Aug 2017

- Wrote libraries for AWS SNS service in K, a vector programming language
- Integrated AWS Lambda functions with SNS to build a notification tool in K
- Designed and implemented an automated escalation tool to manage error messages and simplify system monitoring

HSBC LTD.,

Hong Kong

Industrial Trainee, Futures IT, Global Banking and Markets

June 2014 - June 2015

- Maintained and supported 3 derivative trading systems with 11 servers and several hundred traders
- Took part in inter-department development of a Global Change Management web application
- Implemented data persistence layer in Java on Spring and Hibernate frameworks

PROJECT EXPERIENCE

Cloud Computing and Big Data (E6998) – Plague Simulation Web App

October 2016 – December 2016

- Designed and implemented a web app simulating spread of plague via airlines and displaying on a world atlas
- Developed calculation on a Spark cluster, used Kafka as messaging tool with frontend and Django servers
- Led a group of four and designed the system architecture

Final Year Project - Sina Microblog User Study Web App

September 2015 – April 2016

- Designed and implemented a microblog user data mining and visualization web application
- Applied multiple prediction and clustering models to study user interest and network from various perspectives
- Implemented an asynchronous web console to view user study results on Grails and Bootstrap frameworks

JOS Innovative Competition - QNO, an electronic queueing application

December 2015 – March 2016

- Designed a mobile application enabling users to queue for restaurants electronically
- Implemented server side application on Grails and provided a RESTful interface to mobile app

Data-intensive Computing (CS4480) - Trending Word Study on Multiple Platforms

September 2015 – December 2015

- Developed a trending keyword extraction function using TextRank algorithm
- Implemented, evaluated and compared the same functionality on MapReduce, Pig and Spark platforms

AWARDS AND SCHOLARSHIPS

- Gold Award in the JOS Innovative IT Project Awards (Project QNO) 2016
- HKSAR Government Scholarship 2014 - 2016
- City University Half Tuition Scholarship 2012 - 2016