## **TIANCHEN ZHONG**

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EDUCATION	
Carnegie Mellon University (CMU)	Pittsburgh, PA
<ul><li>Master of Science in Information Networking, Information Networking Institute.</li><li>GPA: 3.95/4.0</li></ul>	Aug. 2017 - May 2019
• <b>Related Courses</b> : Intro to Computer Systems, Cloud Computing, Search Englistificial Intelligence, Practical Data Science	ne, Distributed System, Ar-
Southeast University (SEU)	Nanjing, China
<ul> <li>Bachelor of Engineering in Information Engineering</li> <li>GPA: 3.89/4.0 (91.64/100)</li> <li>Related Courses: Data Structures and Algorithm, Database System, Machine tecture, BigData, Computer Vision, Computer Network</li> </ul>	Aug. 2013 - June 2017 Learning, Computer Archi-
Skills	
<ul> <li>Cloud: AWS: EC2, S3, Lambda, DynamoDB, RDS, EMR, Azure: CosmosDB, Storage, Event Hubs, GCP: Dataproc, Compute Engine, Kubernetes Engine, D</li> <li>DataBase and Big Data: MySQL, HBase, MongoDB, CosmosDB, Spark, Ha</li> </ul>	Functions, App service,Blob Patastore, Functions Idoop MapReduce, Kafka
Walmart Inc	Bentonville AR
Software Engineer Intern in Sam's Club Cloud infrastructure team	May Aug 2018
<ul> <li>Designing and Implementing RESTful API and scalable systems with Azure W tions, Event Hubs.</li> <li>Won third prize in Walmart Codeception Hackathon with implementing Java ba social media platform for Walmart associates.</li> </ul>	eb App, CosmosDB, Func-
PROJECTS	
Twitter Analytics Web Service	Feb May 2018
<ul> <li>Performed data Extracted, Transform and Load on 300 million (1TB) of raw tw</li> <li>Built a RESTful web service using Undertow framework, with MySQL and H</li> <li>Applied load balancing strategy to handle 4 types of intensive read/write quer of 10,000 QPS (queries per second) in 2 hours live test, within a maximum cost</li> <li>Optimized web service by using thread pool, refining database schema, tun database. Utilized JMeter as load generator to test our web service.</li> </ul>	veet messages using <b>Spark</b> . Base as back-end on <b>AWS</b> . ies and achieved an average st of \$0.85/h on <b>AWS</b> . ing parameters on backend
Lucene Based Search Engine	Jan May 2018
<ul> <li>Implemented a text-based search engine indexed with Lucene API on corpus of ClueWeb09 dataset in Java.</li> <li>Developed a custom search engine with diversification, query expansion and supporting retrieval models including Ranked Boolean, BM25, and language search engine by varying parameter values, analyzed trends, and the models developed by varying parameter values.</li> </ul>	500, 000 + documents from learning to rank capability, statistic model like Indri. ambiguities discovered from
the conducted experiments.	Man 2019 Ann 2019
Designed and implemented HayStack Photo File System in Facebook paper with the system of the system in Facebook paper with the system of the system of the system in Facebook paper with the system of the syst	ith Golang
- Designed and implemented may stack i noto i ne system in racebook paper wi	an oviang.

• Utilized Cassandra and Redis to emulate object file system in cloud virtual machine.

## **University Chatbot**

- Designed a chatbot to answer questions related to my university via Microsoft Bot Framework in C#.
- Developed a **Python** web crawler to extract information from websites and saved them in **SQL server**.
- · Implemented natural language processing to analyse key words in the question improved answers correctness, deployed the service on Azure, achieving top 32 out of 1000 in Beauty of Programming competition.

May - July 2017