Jian Shi

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Education

- **University of Melbourne** — Melbourne, Australia
  Master of Information Technology — *July. 2017 – Present(Graduate in July. 2019)*
  Average Mark: 73/100

- **Zhejiang University of Technology** — Hangzhou, China
  Bachelor of Software Engineering — *Sept. 2013 – June. 2017*
  GPA: 3.48/4 (87/100)
  Honors/Awards: The Second / Third Prize Scholarship

Work Experiences

- **ITConnexion Pty Ltd.** — Melbourne, Australia
  Software Engineer Intern — *Dec. 2018 - Feb. 2019*
  - PowerShell scripts development to handle Windows server tasks
  - Maintained and developed clients websites.

- **Hangzhou Chinaoly Technology Co., Ltd.** — Hangzhou, China
  Software Engineer Intern — *Oct. 2016 - Jan. 2017*
  - Have acquired a fundamental understanding of the Apache Hadoop ecosystem including HDFS, HBase and Zookeeper; learned deeper about a network authentication protocol Kerberos which could help to enhance the security level for the Hadoop ecosystem.
  - Deployed Hadoop clusters and other related components for third-party departments and enabling Kerberos authentication to achieve secure, Multi-Tenant Hadoop architecture.
  - Modified (add the authentication step when code establishes the connection to the server) and updated (the old code using deprecated API to the code adopting latest API) the Java code for operating the HDFS and HBase at the client side.

Projects

- **Intelligent Tools for GitHub Pull Request** — *Feb. 2019 - June. 2019*
  - Implemented a bot integrated with GitHub that could provide suggestions towards the modied code in Pull Request procedure.
  - Adopted Probot framework which helps receive and validate the webhook information sent from GitHub and prepare the comprised data to transfer to the backend module.
  - Adopted Antlr to tokenize the programming language, Built N-gram Language Model using Witten-Bell Smoothing Technology.

- **Automatic Fact Verication** *May. 2019 - June. 2019*
  - Implemented a three-layer automatic fact verication system based on the PyLucene and BERT.
  - In document retrieval part, utilize the overlapping of stemmed sentences to improve the result searched from PyLucene Index.
  - In sentence selection module, gird search the threshold to nd best-matching sentences from the BERT output
  - In textual entailment label prediction phase, compare the performance of the Bi-LSTM and BERT, achieving 60% accuracy.

- **OA System (Involved)** *June. 2016 - June. 2018*
  - Involved in Managing the data about company internal staff and external customer, recording the relevant commodity goods information and other helper functions for the company.
  - Implemented user interface using Ext JS at front end.
  - Implemented functions, actions based on the Struts, Spring, Hibernate frameworks constructed by teammates at back end.
  - Maintained the system for 2 years.

- **Simulated Multi-server Distributed System** *April. 2018 - June. 2018*
  - Built a simple multi-server system for broadcasting activity among a number of clients.
  - Implemented load balance client requests over the servers, using a redirection mechanism to ask clients to reconnect to another server.
  - Implemented clients to broadcast an activity to all other clients connected to system.

Skills

- **Basic**: Understand object-oriented programming, declarative programming, data structures and algorithms, basic network technology, database operation, basic machine learning & AI
- **Programming Languages**: Java(preference), Python, SQL, C++, Haskell, HTML, JavaScript
- **Database**: MySQL(preference), SQL Server, HBase(basis)
- **Speaking Languages**: English, Mandarin Chinese