

Zehua Wang

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OBJECTIVE

Seeking a software engineering intern position starting in 2017 summer.

EDUCATION

University of Southern California (Los Angeles, US)	<i>Expected Dec. 2017</i>
Master of Science in Computer Science	GPA: 3.48/4.0
Central South University (Changsha, China)	<i>Sep. 2011 - June 2015</i>
Bachelor of Engineering in Automation	GPA:86.37/100

PROJECTS EXPERIENCE

Congress Information Search Website& Android App (JavaScript, PHP, Java) *Sep. 2016-Nov. 2016*

- Built a webpage in support of Responsive Web Design along with an Android app and implemented the proper approach to retrieve and manage information from third party APIs.
- Implemented full-text and fuzzy search and pagination function using **AngularJS** framework and responsive Web UI using **Bootstrap**.
- Developed back-end using **PHP** and deployed the server-side on AWS.
- **Android** development used: OOD, **Java**, Multithread, data storage and XML.

Logical Reasoning System (Java) *Oct. 2016*

- Designed a knowledge base using resolution inference algorithm to entail input query.
- Implemented the knowledge base with functions of unification, factoring, resolution.
- Applied table-based indexing to enhance performance when knowledge base size is huge.
- Implemented LEX and YACC tool to recognize operator priorities and convert sentences in knowledge base to CNF form.

Chess Game Playing Agent Application (Java) *Aug. 2016*

- Implemented the agent with functions of predicting opponents' possible next moves and response with moves option that could optimize agent's score in the game using Minimax algorithm.
- Applied Alpha-beta pruning algorithm to enhance program efficiency and perform double depth of search at best.

File Manipulation TCP Server (C, Socket programming) *Apr. 2016*

- Designed a server to create a stream socket, receive requests, produce results based on requests and send back to client on the same connection.
- Implemented the client with functions of sending different requests and receiving results.
- Implemented the server with functions of file type check and file download.
- Accomplished MD5 checksum calculation using OpenSSL library.

TECHINICAL SKILLS

Programming Language: Java, C/C++, JavaScript, PHP.

Tools& Libraries: AngularJS, jQuery, AWS, Apache, UNIX, GitHub, Android Studio

Coursework: Algorithm Analysis, Web Technology, Artificial Intelligence, Database Systems, Computer Networks, Operating Systems.