

Shuo Ma

CONTACT INFORMATION

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SUMMARY

- Have more than 4 years of C/C++ development experience.
- Proficient in scripting languages like Ruby and bash.
- Enthusiastic about building efficient softwares, and learning new knowledge and skills.

EDUCATION

CURRENT **Texas A&M University**, College Station, TX
M.S. in COMPUTER SCIENCE
GPA: 3.67/4.0

JUNE 2015 **University of Science and Technology of China**, Hefei, China
B.Eng. in ELECTRONIC INFORMATION SCIENCE
Thesis: "Music Algorithmic Composition" | Advisor: Zhibo CHEN
GPA: 3.6/4.0

WORK EXPERIENCE

SUMMER
2014 **IFLYTEK Co., Ltd.**
SOFTWARE ENGINEER INTERNSHIP at the Department of Core-Technology
- Developed a visualized demo using MFC to present voice conversion algorithms.
- Developed a web app using Adobe Flex for collecting voice samples from experimental subjects.

SKILLS

PROFICIENT: C/C++, RUBY ON RAILS, BASH, MATLAB
EXPERIENCE: JAVA, JAVASCRIPT, L^AT_EX, SQL, SWIFT

RECENT PROJECTS

CURRENT **Bio-data Curation Crowdsourcing Web-app**
ADVISOR: DR. DUNCAN M. (HANK) WALKER
- Building a SAAS app for crowdsourcing of bio-data curation, using Ruby on Rails
- Incorporating Agile Development and TDD/BDD in the project

FALL 2015 **Digital Circuit Sketch Recognition and Simulation**
ADVISOR: DR. TRACY ANNE HAMMOND
- Designed and Implemented an improved sketch recognition algorithm for circuit diagrams using Javascript.
- A descriptive paper of the project has been accepted by CPTTE in Feb. 2016.

- MAY 2015 **Automated Music Composition**
ADVISOR: DR. ZHIBO CHEN
- *Experimental thesis project which used Genetic Algorithm to compose music of different genre, the music scales of which were used as fitness function*
- *Developed a Java Swing GUI program on top of the algorithm.*

RELEVANT COURSEWORKS

- CURRENT **Course: Machine Learning**
- *Implemented neural network back propagation algorithm with momentum and cross-validation.*
- *Implemented ID3 algorithm with tree-pruning and cross-validation.*
- FALL 2015 **Course: Artificial Intelligence**
- *Implemented and compared the performance of BFS, DFS and GBFS on a navigation problem.*
- *Implemented A* search and used it to solve the classic AI search problem the "Blocksworld".*
- *Implemented back-tracking algorithm for general Constraint Satisfaction Problems. Evaluated the effect of the MRV heuristic.*
- *Implemented a Resolution theorem prover which can be used to make inferences from a propositional knowledge base.*
- *Implement DPLL Algorithm and to applied it to solving a multi-agent coordination problem.*
- FALL 2015 **Course: Analysis of Algorithms**
- *Implemented a network routing protocol using Dijkstra's and Kruskal's algorithms. Compared performance between different implementations of the routing algorithms.*