

MAOMING TANG

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EDUCATIONAL BACKGROUND

School of Information Science and Technology, Southwest Jiaotong University *Sept.2012 – Jun. 2016*

B.E., Telecommunication Engineering, GPA: 3.6 / 4.0

School of Engineering and Computer Science, University of Texas at Dallas *Aug.2016 – May. 2018*

M.S., Computer Science, GPA: 3.8 / 4.0

- Courses: Database Design, Machine Learning, Design and Analysis of Computer Algorithms

WORK EXPERIENCE

China Electronics Technology Group Corporation *Jun. 2015 – Aug. 2015*

Software engineer intern – Android application “Personal Management Assistant”

- Analyzed requirement for this application through questionnaires offered to 100 workmates involving various categories of people, male and female, the old and the young
- Developed the login function using JAVA, including registering new accounts, revising password and retrieve password, by the means of SharedPreferences
- Tested the final edition of the application, fixing problems discovered, over and over again for about 20 times to assure its stability

RESEARCH EXPERIENCE

Library Management System (Python, MySQL) *Mar. 2017*

- Connected Python application and MySQL, created tables with Python and imported data into tables
- Realized functions like searching books with keywords ordered by relevance and checking out books
- Updated fines every day with a click and realized some constraints like fines cannot be paid unless corresponding books are returned

Decision tree and pruning realization (Java) *Feb. 2017*

- Traversed training set and stored data into ArrayList, with every element containing attribute name and value
- Created decision tree by computing and getting highest information gain
- Pruned decision tree with validation set and made decisions seeing if the accuracy rate raised

Batch Processor (Java) *Oct. 2016*

- Achieved the overall batch parser which can traverse xml file to get specific information and store it in different maps and invoke other corresponding parsers
- Programmed other 3 parsers that parse 3 corresponding elements, filename, exec, and pipecmd respectively

Hospital Management System (Java) *July 2013 – Sept. 2013*

- Programmed for the main section “function selection” and another section “input patients’ information” and designed interfaces of all sections, using Java
- Solved most of the problems showing up during the development process

Beamforming Technology in Millimeter Wave System With Matlab *Sept. 2015 – Jun. 2016*

- Generated a binary sequence as signal and applied it with different precoding approaches such as ZF and SVD
- Generated a channel, made the signal through it with noise, and decoded it using specific means.
- Achieved a particular algorithm of beamforming for millimeter wave systems

OPEN COURSES

Android Development for Beginners; Using database with Python; HTML, CSS, and Javascript for Web Developers; Single Page Web Applications with AngularJS;

PROFESSIONAL SKILLS

- Programming language: Java, C++, Python
- Data analysis: Matlab, R
- Front-end: Html5, CSS, Javascript