Ran Cheng

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Accomplished, achievement-driven and results-oriented student, seeking a graduate school application

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EDUCATION

Tongji University	**Shanghai, China**
Outstanding Diploma thesis	July. 2015
Second Class Prize Scholarship	Dec. 2014
Second Class Prize Scholarship	Dec. 2012
Second Class Prize, FTC	Feb. 2008

RESEARCH, INTERNSHIPS, & WORK EXPERIENCE

SAP	**China**
Intern	July 2014 – Aug. 2015
Acquired knowledge of SAP and Big Data (financial) analysis	
Boffin, iLab USC/Tongji	**China**
Research Assistant	Apr. 2015
Conducted research about Biostatistics, computer vision, SLAM, and indoor localization	
NBA/SAP	**China**
Volunteer	Dec. 2014
Taught programming basics to underprivileged primary school students	
FTC (First Tech Challenge, a Robot Competition Conference)	**China**
Technician	Apr. 2014
Answered all robotics technique questions	
IBM Technology Club	**China**
Chair	Sep. 2013
Won the annual outstanding contribution award in 2013	
Boffin, Apple Developing Department	**China**
Research Assistant	May 2013
Taught students about Apple Developing	
SAP VT Shanghai	**China**
Leader	May 2013
Led VT student group in algorithm research in SAP	

RESEARCH SKILLS

Programming Languages
- **Master**：Python/R/C++/C/Objective-C
- **Proficient**：Java/JavaScript/C#/Swift

Research Tools
- **Master**：Matlab/Rstudio/PyCharm
- **Proficient**：Blender/Arduino/Hadoop

Practical Projects
- **Data Processing:** Taxi Big Data Management System in Web; used Map to reduce and Artificial Neural-Network to analyze big data in Taxi systems）
- **Computer Vision**：Mobile Robot Navigation System in Outdoor Pedestrian Environment; used robot vision to navigate and build the maps, both indoors and outdoors）
- **Computer Vision**：Indoor Localization by Vision Approach; used gist and saliency to cluster the frames, allowing the preprocessing to offer a better training result (at most 98%)
- **Biostatistics**：rMATS algorithm optimizing and multi-sample analyze support; in cooperation with UCLA's biolab, we produced a better tool, packaged in R, to help scientists efficiently analyze their RNA transcript splicing
- **Social Network and Graph Theory**：a tree-like three-dimensional graph to reorganize the structure of current social networks; used family tree as the representational layer to users and build the tree-like inner ordered structure to resolve the information isolation problem

Engineering

- **Master**：Arduino/Robotic Architecture Design/Robotization
- **Proficient**：Pattern Recognition/Cybernetics

AWARDS & EXTRACURRICULAR ACTIVITIES

Social Activists Award	Dec. 2012
Imagine Cup, Microsoft	May 2013
IBM Outstanding Contribution Award, IBM Club	Dec. 2013

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