CURRICULUM VITAE - DETAILED

Tian Fengrui

Undergraduate   Gender: Male   Age: 21
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PERSONAL STATEMENT

Research Interests:
   Computer Vision: Autonomous Driving; Image Segmentation; Deep Learning;
   Embedded System: Fault Tolerance; System Reliability;

EDUCATION

Xi'an Jiaotong University   2017.09-2021.07
Software Engineering
GPA:3.49 / 4.0   (Major GPA:3.8)

National University of Singapore
Data Mining Technology   2019.07
Project Grade: A-

RESEARCH EXPERIENCE

SoC Fault Tolerance Research Project, Xi'an Jiaotong University
Participant   *2019.04-Present*
- Established and improved a brand-new checkpointing scheme "MsCp" for real-time embedded system which reduces checkpoint number from about 30 to 2~3 compare to TsCp scheme and total embedded system overheads
- Simulated the effects using MATLAB compared to other 2 checkpointing schemes and analyzed the results on software application average runtime, maximum of tolerant faults and CPU cost time to prove the superiority of "MsCp" scheme in harsh environment
- Drafted an English paper which proposed our achievement and discussed its effects and revised more than 30 times before submitting to a journal
- Chenhong TIAN, **Fengrui TIAN**, Xiaozhi DU, Checkpoint Optimization Approach with Application Multiple-state for Real-time Embedded System, *TEHNIČKI VJESNIK - TECHNICAL GAZETTE*, **submitted (SCI, IF:0.644)**

Mining Communities in Big-Data with Algorithms, National University of Singapore
Team Leader   *2019.07*
- Organized other 3 group members to detect potential connections between movies and books on Douban user data using data mining algorithms such as Markov Chain, Minimum Spanning Tree etc
- Analyzed the relationship between 105 user groups and 8 different types of books and the relationship between 117 movies and different groups of users and established the connection books-users-movies
- Conducted more than 1,000 different kinds of books, more than 10 000 user information messages, and about 3 million movie comments Douban Website Using Python Web Crawler Technology and cleaned the data after crawled to contract the data size from millions to tens of thousands
- Led the team to complete 3 PPTs, 3 project reports, 1 project website and more than 50 python code files
- **Project in Github**   **Project Home Page**

Website for the 16th China Model United Nations Conference, Xi'an Jiaotong University
Technical Director   *2019.3-2019.10*
- Managed the team to build conference official website and news website which is used to glean personal information of nearly 800 conference delegates, Observers and faculty advisors from about 150 universities, and release up-to-date conference news
- Led team to maintain daily website for about half a year

LEADERSHIP EXPERIENCE

Public Speaking Association (PSA), Xi'an Jiaotong University
Vice Chairman *2017.11-Present*
- Responsible for the recruitment, weekly training and activities of the PSA.
- Awarded in 3 MUN conferences and organized the 9th and 10th Xi'an Jiaotong University Model United Nations Conference. During the conference, responsible for more than 500 representatives and volunteers, 3 hours of dinner planning, etc.

The 16th China Model United Nations Conference, Xi'an, China
Technical Director *2019.3-2019.10*
- Managed the team to conduct about 2000-page conference documents, 2 video clips for opening and closing ceremony, about 15 posters and program arrangement in Social Event in the evening
- Organized nearly 300 volunteers who were divided into about 15 different groups during 4-days conference session to improve the quality conference.

SKILLS, CERTIFICATES

The Third Prize Scholarship	2019.8
English (TOEFL IBT Score: 79)	2019.6
Bronze medal in Group Programming Ladder Tournament	2018.9
Dimensional Award for Mathematical Modeling in Xi'an Jiaotong University	2019.3
Top10 in the military training speech contest of Xi'an Jiaotong University	2017.3