

JIARUI GAO

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EDUCATION

Carnegie Mellon University Silicon Valley, Mountain View, CA M.S. in Software Engineering	Aug. 2018 - Dec. 2019
Fudan University, Shanghai, China B.S. in Computer Science, Top Talent Undergraduate Training Program GPA: 3.52/4.0, Rank: 14/70, Major GPA: 3.65/4.0	Sept. 2014 - Jun. 2018

EXPERIENCE

Shanghai Key Laboratory of Intelligent Information Processing Research assistant supervised by Prof. Yanwei Fu & Prof. Yu-Gang Jiang (<i>Python, MATLAB, Numpy, Tensorflow/Caffe, SVM</i>) <ul style="list-style-type: none">◦ Publication: Jiarui Gao, Yanwei Fu, Yu-Gang Jiang, and Xiangyang Xue. <i>Frame-Transformer Emotion Classification Network</i>, In ACM International Conference on Multimedia Retrieval(ICMR), 2017.◦ Proposed a unified neural network architecture for solving emotion classification, emotion attribution and emotion-oriented summarization jointly with only video-level supervision.◦ Improved emotion classification accuracy by 6.1% and emotion detection mAP by 7.8% compared to the state-of-the-art performance on Ekman6 dataset.	Nov. 2015 - Jun. 2018
Morgan Stanley, Shanghai Application Development Intern in the department of Corporate & Funding Technology (<i>Java web application, HTML/CSS, AngularJS2.0, TypeScript, Spring, DB2</i>) <ul style="list-style-type: none">◦ Developed a Java web application for Outside Business Interest system as an effective PoC.◦ Proposed a novel graph algorithm in AngularJS2.0 on front-end to render decision processes with a configurable set of tree-like rules.◦ Designed a new database schema using DB2 temporary tables on back-end to make history data traceable.	Jul. 2017 - Sept. 2017

PROJECTS

Emergency Social Network Application, CMU (<i>Javascript, Node.js, React, Bootstrap, HTML/CSS, RESTful API, Socket.io, Mocha, MySQL, Heroku</i>) <ul style="list-style-type: none">◦ Partnered with a team of four to develop a web social network application for emergency situations with Scrum and Kanban workflow.◦ Developed RESTful APIs for use cases including join community, chat publicly and post announcements.◦ Built front-end UI in React for announcement page and used Socket.io to update the content dynamically.◦ Wrote in-progress unit and integration tests with Mocha and deployed the application to Heroku Cloud.	Present
Mutation Testing on Guava, CMU (<i>Java, JUnit, EcEmma</i>) <ul style="list-style-type: none">◦ Created a test plan from scratch for TreeRangeMap class in Guava using both systematic spec-based and structural testing techniques with a team of three.◦ Designed test cases using the test plan and applied them to the super-mutant created by the rival team.◦ Evaluated the test plan through detailed fault and coverage analysis.	Fall 2018
Distributed Encrypted File System (<i>Python, HDFS, Crypto, RSA/AES</i>) <ul style="list-style-type: none">◦ Extended the design of Hadoop Distributed File System(HDFS) to allow clients to store large-scale data on a cluster of untrusted servers using an encryption layer on clients' side.◦ Achieved full recovery for possible damaged files by retrieving file blocks from other servers.◦ Granted read-write locks for clients to keep a high consistency.	Spring 2017

SELECTED AWARDS

Best Undergraduate Thesis Award, Fudan University (top 1%)	July 2018
Outstanding Graduate Students of Fudan University (top 15%)	Jun 2018
Honors Student Award in Top Talent Undergraduate Training Program, Fudan University (top 7%)	Jun 2018

SKILLS

Programming Languages: C/C++, Java, Python, HTML/CSS, Javascript, MATLAB
Other: MySQL, DB2, JQuery/AngularJS2.0/React, Node.js, JUnit, Mockito, Tensorflow/Keras, Numpy, Git