

<b>Objective</b>	Seeking a Software Development Engineer Internship from <b>mid-May</b> to <b>mid-August</b> , 2017	
<b>Education</b>	<b>Rice University</b> , Houston, Texas	<i>Expected Dec. 2017</i>
	Department of Computer Science	
	<b>Master in Computer Science</b> track from Computational Science and Engineering program GPA: <b>3.7/4.0</b>	
	<b>Shanghai Jiao Tong University</b> , Shanghai, P. R. China	<i>Aug. 2016</i>
	University of Michigan - Shanghai Jiao Tong University Joint Institute (UM-SJTU JI)	
	<b>Bachelor in Computer Engineering</b> , with major GPA: <b>3.5/4.0</b>	
<b>Computer Skills</b>	Programming Languages: Java, Javascript, C/C++, C#, Python, SQL, HTML/CSS, Verilog Platforms/Frameworks: Git, SVN, Vim, Node.js, React/Redux, Hadoop, Jenkins, MyBatis, Hibernate	
<b>Work Experience</b>	<b>Software Engineer Intern</b> , Transwarp Technology, Shanghai, P. R. China	<i>Feb. 2016 - Apr. 2016</i>
	<ul style="list-style-type: none"><li>Constructed an integrated test environment on <b>Jenkins</b> for a five-person development group</li><li>Designed connection methods for company's own Hadoop database with DBCP connection pool and ORM frameworks (Mybatis, Hibernate), along with supporting <b>batch processing</b> operations</li></ul>	
<b>Project Experience</b>	<b>Full-stack Web Development for an Online Social Network</b>	<i>Sep. 2016 - Dec. 2016</i>
	<ul style="list-style-type: none"><li><b>Front-end url</b>: <a href="https://renren.surge.sh">https://renren.surge.sh</a> (supports Chrome best)</li><li><b>Back-end url</b>: <a href="https://mysterious-scrubland-92641.herokuapp.com">https://mysterious-scrubland-92641.herokuapp.com</a></li><li>Used <b>React/Redux</b> and Bootstrap in <b>ES2016+</b> (webpack) to develop front-end web pages (landing, main, and profile), allowing logged-in users to add friends, post articles and update profiles</li><li>Implemented an <b>Express</b> server on <b>Node.js</b>, connected to <b>MongoDB</b>; it supports authenticated login/logout and CRUD operations for profiles, avatars, articles, comments and followers</li><li>Added user authentication (salting by hash, cookie), session management via <b>Redis</b>, third-party authentication via <b>OAuth2</b>, <b>Passport</b> (Facebook), and permanent image uploading via <b>Cloudinary</b></li></ul>	
	<b>GIS-map-based Client-Server Game</b>	<i>Nov. 2016 - Dec. 2016</i>
	<ul style="list-style-type: none"><li>Players in each team move on the NASA WorldWind map to be together within certain rounds</li><li>Created lobby and team chat rooms, supporting real-time conversations based on <b>Java RMI</b></li><li>Implemented <b>message passing</b> in all communications (not using Java JMS), handling well-known and unknown commands from senders; achieved cmd-to-cmd communication for game processing</li><li>Compatible with other groups' clients of their own implementations</li></ul>	
	<b>Software for Distributed Printing Service, sponsored by HP, Team Leader</b>	<i>Sep. 2015 - Dec. 2015</i>
	<ul style="list-style-type: none"><li>Saved at least <b>70% print time</b> for those small companies who meet large print jobs (&gt; 500 pages) but cannot afford expensive printers, by fully utilizing existing normal printers simultaneously</li><li>Designed a <b>genetic algorithm</b> to intelligently allocate print jobs to different printers</li><li>Handled issues including paper jam and paper fault, and supported customization function</li><li>Coded in <b>C#</b> to accomplish computer-printer interactions, in around 2000 lines of codes</li></ul>	
	<b>Operating System and Cryptography Projects in C</b>	<i>May 2014 - Dec. 2015</i>
	<ul style="list-style-type: none"><li>Wrote a <b>unix-like shell</b> using system calls, supporting common commands</li><li>Completed <b>earliest-deadline-first scheduling</b> and <b>lottery scheduling</b> in Minix 3</li><li>Implemented <b>AES</b> and <b>RSA</b> Encryption/Decryption</li></ul>	
	<b>CPU Design and Verification</b>	<i>Oct. 2014 - Nov. 2014</i>
	<ul style="list-style-type: none"><li>Coded a five-stage MIPS <b>pipeline CPU</b> and verified it on a FPGA board with common instructions</li><li>Resolved <b>all data/control hazard issues</b> using forwarding and hazard prediction technique</li></ul>	
<b>Selected Publications</b>	Research interests in <b>computer networks</b> and <b>network security</b>	
	<ul style="list-style-type: none"><li><b>Xiang Li</b>, Mengyuan Li, Na Ruan, Fan Wu, and Jie Li, "Efficient and Enhanced Broadcast Authentication Protocols based on Multilevel <math>\mu</math>TESLA", in Proceedings of the 33rd IEEE International Performance Computing and Communications Conference (<b>IPCCC</b>), Dec. 2014 (acceptance rate: 30%)</li><li>Na Ruan, Lei Gao, Haojin Zhu, Weijia Jia, <b>Xiang Li</b> and Qi Hu, "Toward Optimal DoS-resistant authentication in Crowdsensing Networks via Evolutionary Game", in Proceedings of the 36th IEEE International Conference on Distributed Computing Systems (<b>ICDCS</b>), June 2016 (acceptance rate: 18%)</li></ul>	