Xiaoran Li

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OBJECTIVE
Seeking Full time job opportunity for **Software Engineering** positions

EDUCATION
University of California, Irvine   Irvine, CA
Master of Science, Electrical Engineering   June 5th, 2019
Thesis: *Low-Latency MapReduce*   GPA:3.238/4.0
Selected Coursework: Digital Communication, Neural Network, Adv System Security, Information Theory, Thesis Research

University of California, Irvine   Irvine, CA
Bachelor of Science, Electrical Engineering   June 2017
Selected Coursework: Digital Communication, Image Processing, Signal Processing   GPA:3.264/4.0

SKILLS
Programming/Scripting Language: (Proficient)Python; (Familiar)C, MATLAB, SQL, and Mathematica
Frameworks and tools: Distributed File system, Hadoop, Apache Spark, Git, OpenCV, CNN in DeepLearning, Tensorflow, PyTorch

THESIS
University of California, Irvine   Irvine, CA
Low-Latency MapReduce   *Sep.,2017 - June 2019*
- Studied the fundamental problem of storing evolving information in distributed networks through coding-based distributed computing
- Used an application (in Python) to create multiple versions of a message are be written to a storage network and used distributed algorithm to find the minimum cost in terms of storage and communication size in linear exponential decay function. Used the function to find the unique solution for the most efficient network
- Built an application (in Python) to create multiple version of distributed storage network and based on the communication bandwidth and distributed algorithm to find appeared time for the keywords in the network in terms of storage and communication size and plot in linked graph then list the top popular result from each network

PROFESSIONAL EXPERIENCE
Western Digital   Irvine, CA
Software Engineering Intern   *June – Sep, 2018*
- Interned with the eSSD group for developing new generation of SSD
- Reduced the running time for SSD engine program by 30 seconds out of 3 minutes

University of California, Irvine   Irvine, CA
Undergraduate Research Assistant   Feb. 2015 – Sep., 2017
- Designed and fabricated multiple versions of the wrinkled structure in wearable devices
- Built an application (in Python, LabVIEW, and MATLAB) to monitor and calculate human's health such heartbeat, heart pressure, even be able to track human motions.

ACADEMIC PROJECTS
Hand Gesture in Deep Learning by Using MapReduce   Irvine, CA
University of California, Irvine   Winter 2019
- Implemented a classifier in a distributed store network to handle image processing for large datasets
- Created over 3000 images and trained over 1000 images in each network
- Exceeded the test accuracy of 98% by using 11-layer CNN the result is significantly better than ResNet 50 and Kernelized (RBF) SVM by 10% of accuracy.

Network Security Defender   Irvine, CA
University of California, Irvine   Winter 2019
- Built an application (in Python) for a distributed storage network for three users for ReCaptcha technology and crashed one of the networks. The security system goes through the ReCaptcha with trained accuracy of 98% by using 11-layer network and erasing the bad source from the network then using other networks to repair the crashed network

CONFERENCE & AWARD
Elevator Talk: 3rd Annual Southern California Micro & Nanofluidics   09/2016
First science cup for Olympic innovation competition (First Prize)   Oct. 2007
FIRST VEX Challenge Excellent Team (Team Leader, 2nd in the world)   Apr. 2007