Wenjie Chen
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EDUCATION

Columbia University in the City of New York   **New York, NY**
- M.S in Electrical Engineering (Data driven analysis track)   **Sep 2019-Dec 2020 (expected)**

Xi'an Jiaotong University (XJTU)   **Xi'an, China**
- B.S in Electronic and Information Engineering   **Sep 2015-Jun 2019**
- Merit Student, Excellent Class Leader

Courses include: Cloud Computing and Big Data, Statistical Learning, Neural Network and Deep learning, Operating System, Database, Computer Network, Algorithm, Amazon Web Service Certified 2019…

PROFESSIONAL EXPERIENCE

GalaxyCore, R&D Center   **Shanghai, China**
Product Application Engineer Intern (focused on Data Analysis)   **Jul 2018-Aug 2018**
- Performed ongoing analysis based on data from over 2,000 chips and extracted multiple report indicators
- Accomplished data cleaning and A/B test; Debugged and validated the Matlab algorithm source code, process
- Improved, and optimized existing algorithms to ensure the high speed, robustness and quality of product (>99.95%)

Xi'an Jiaotong University, Youth League Committee, "TiaoZhan Net"   **Xi'an, China**
Software Engineer Intern (part-time)   **Sep 2015-Aug 2017**
- Built the official web site for Youth League Committee: https://www.tiaozhan.com; https://apply.tiaozhan.com/#/
- Cooperate to developed the application system of "Application for Public Resources in XJTU-WZ" with php, jQuery, and MySQL to handle and evaluate 3000+ undergraduate students' applications for public resources
- Participated in the technical team that committed to the design and development of the website, and the operation and maintenance of the server and website

Xi'an Jiaotong University   **Xi'an, China**
Research Assistant   **Mar 2017-Jun 2019**
- Worked in the National Quantum Information Lab and conducted the research "The Generation of Nonclassical Multi-photon"; Achieved generation and enhancement of gain and squeezing of four, six, eight wave mixing
- Worked in the National Electronic Science and Technology Lab and conducted the research "Preparative Technique on Large-Area Perovskite Solar Cells"; Achieved perovskite solar cell devices with an efficiency of over 15%
- Published papers: "Modulation gain and squeezing by dressed state in hot atomic system", Laser Phys. Lett. 16 (5), 055401(2019); "Device Scaling Consideration for Sub-90nm 2Bit/Cell Split-Gate Flash Memory Cell", Solid State Electronics.152(2019)46-52.

PROJECTS

Recurrence of all Basic Concepts and Classic Models in Deep Learning (using GCP)   **New York, NY**
- https://github.com/JACKCHEN96   **Sep 2019-Dec 2019**
- Implemented basic classifiers, MLP, dim reduction (PCA and tSNE), optimizers (SGD with Momentum, RMSprop, Adam), regularization (Dropout, Batch Normalization), data augmentation in Python (NumPy, TensorFlow and so on)
- Implemented convolutional neural network (used LeNet to achieve over 95% accuracy in Kaggle bottle classification competition), recurrent neural network (compute XOR operation); realized simple translating French to English
- Reproduced the paper "Multi-Digit Number Recognition from Street View Imaginary Using Deep CNN"

Build and Operate a 3-Layer Network & Video CDN   **New York, NY**
- https://github.com/JACKCHEN96   **Oct 2019-Dec 2019**
- Set up a valid forwarding state within an autonomous system (AS) and between ASes using OSPF; Implement different BGP policies to reflect business relationships or traffic with outer internet
- Used socket programming and HTTP to implement a proxy that handles multithreaded clients and passes data (video) back and forth between client-server; And the proxy can smartly perform bitrate adaptation based on network status

The Web Developer App "YelpCamp"   **New York, NY**
- https://evening-harbor-35564.herokuapp.com   **Jul 2019-Aug 2019**
- Designed full-stack web applications about travel social sharing from scratch using Express, MongoDB, and Semantic UI, including create static HTML and CSS portfolio sites and landing pages, use Bootstrap to create good looking responsive layouts
- Used NodeJS to write server-side JavaScript; Manipulated the DOM with jQuery

PROFESSIONAL SKILLS

- Skills: Python, Java, C, JavaScript, Matlab, R, SQL, PHP, HTML, CSS, Node.js, MongoDB, React, Spark, Hadoop…