Wenfeng Pan

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Education

- **University at Buffalo** — Buffalo, NY, U.S.
  Master of Science in Computer Science; — *Aug. 2018 - Now*

- **Qingdao University** — Qingdao, China
  Bachelor of Engineering in Software Engineering; — *Sept. 2014 - June. 2018*
  Overall GPA: 81.63/100 Third Year GPA: 87.06/100 Major GPA: 84.31/100

Work Experience

- **ifanr, Inc.** — *Mar. 2018 - Aug. 2018*
  SRE Intern https://www.ifanr.com/
  - Single Sign On Optimization.
  - Participate in a WeChat Mini Programs BaaS Platform (ifanr Cloud) development.

- **WeiChen Future Network, Inc.** — *July 2016 - Dec. 2016*
  Software Engineering Intern https://www.qducc.com/
  - Wrote a VPN client that solved the NAT traversal problem between Amazon Web Services and private network.
  - Embedded Microsoft Azure Speaker Recognition API to power the application with an intelligent verification tool.
  - Implemented high-performance lottery module, and utilized Redis Message Queue to enhance the response time.

Research Experience

- **Beijing Housing Price Prediction based on Decision Tree** — *Jan. 2017 - May 2017*
  Data Mining Final Project https://house.wenfeng.me/
  - Used scikit-learn framework to do simulated training based on optimized Classification and Regression Tree, combined it with the K nearest neighbors algorithm and got the optimal housing model.
  - Showed data virtualization by Pandas, NumPy, matplotlib, and displayed the performance of decision tree.
  - Input 10,000 groups data of housing price as a practice, and achieved 78.92% model performance .

- **Facial Attractive Computing based on Convolutional Neural Network** — *July 2016 - Dec. 2016*
  With Professor Jianbo Li https://face.wenfeng.me/
  - Used TensorFlow framework to build CNN network, combined such technologies as face alignment, multiregional feature extraction of human faces etc.
  - Got the alignment and redundant feature through facial landmark detection and rotation, and multiregional feature extraction of human faces, thus enhanced CNN performance.

- **Sensor Data Distributed Storage System** — *Jun. 2015 - Jun. 2016*
  National College Innovative Entrepreneurship Training Project - Team Leader
  - Implemented interface between sensors and Raspberry Pi and real-time sending sensor data to storage layer.
  - Enhanced the efficiency of data writing, used Hadoop Cluster, combined them with a temporary storage layer based on Redis between the gateway and storage layer, and thus saved 30% of time during data writing.

Activities

- **Qingdao University Open Source Software Club** — Co-founder/Host
  - Held the open source technology lecture on a weekly basis
  - Created Linux User Group to promote the open source software movement.

- **Qingdao University ACM ICPC Association** — Member
  - Administrated campus online judge system and helped the new members to solve problems

Awards

- **Qingdao Hackathon 2016 (#1 out of 26)** *Dec. 2016*
- **National Software Professional Talents Competition 2016, Third prize** *Mar. 2015*
- **Excellent Student Scholarship at Qingdao University, Second prize, *5 times*** *2014 - 2017*

Skills

- **Programming**: C/C++, Python, Java, MATLAB, HTML/CSS, Javascript
- **Platforms/Frameworks**: Linux, Pandas, scikit-learn, TensorFlow, NumPy, Django, Angular JS
- **DataBase**: MySQL, Redis
- **Tools**: Git, Jupyter, LaTeX, Markdown