

ZHONGKAI SUN

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EDUCATION

- Columbia University** New York, NY
• M.S. in Electronical Engineering (GPA of the first semester: 3.67/4.0) *Expected Dec. 2018*
• Relevant Coursework: Neural Networks & Deep Learning, Reinforcement Learning
- Beijing University of Posts and Telecommunications (BUPT)** Beijing, CN
• B.E. in Telecommunications Engineering (GPA: 86.0/100) *Sep. 2013-Jun. 2017*
• Relevant Coursework: Java Programming, Data Structures, Database Technology and Application

EXPERIENCE

- QUALCOMM (Shanghai) Co., Ltd.** Shanghai, CN
Intern *Jul. 2016-Aug. 2016*
• Took charge of WIFI test (DVT) and RF matching/ tuning & simulation
• Tested and evaluated a WIFI-test program
- Lohas Tech (Beijing) Co., Ltd.** Beijing, CN
Intern, Software Developer *Sep. 2016-Dec. 2016*
• Took charge of system test and development of Android APP
• Developed a front-end to visualize background data of sensors from smart watches using D3.js

PROJECTS

- Multi-digit Numbers Recognition using Deep Convolutional Neural Networks** *Oct. 2017-Dec. 2017*
• Used Python do data preprocessing, model training and testing
• Designed and implement a 10-layer CNN using tensorflow and achieved accuracy of 93%
- Simulation of Ecosystem using Reinforcement Learning** *Oct. 2017-Dec. 2017*
• Implemented the simulated environment of a mini ecosystem using python
• Designed a deep Q-network with CNN to simulated and evaluated the behaviors of the herbivores
- General Objects Tracking System Based on Deep Learning** *Jan. 2017-Aug. 2017*
• Implemented an 8-layer CNN using Caffe
• Optimized the system with motion model and made it can retrack lost target
• Developed a GUI with TKinter and achieved tracking selected target from live video of a camera under GPU environment
- A Demo of Courses Registration System** *Nov. 2016-Dec. 2016*
• Designed a front-end and used PHP to communicate with MySQL database
• Achieved user registration and encryption of user information
- Network Traffic Patterns Control Algorithms Based on SDN** *Apr. 2016-Aug. 2016*
• Second prize in National SDN Contest in Applications & Innovations
• Optimized network traffic patterns using an SDN protocol OpenFlow to guarantee the QoS
• Developed the front-end to visualize the algorithms and designed the background algorithms

SKILLS

Programming Languages: Python, Java, C++/C, Javascript, PHP, HTML, SQL
Frameworks: Spark, Hadoop, Caffe, Tensorflow, D3.js, Node.js, JQuery