

EDUCATION

- **Rutgers University** New Brunswick, NJ
Master of Science in Computer Science Graduation: 05/2017
Specialized in AI and Machine Learning GPA: 3.45/4.0
- **Shandong University** Jinan, Shandong, China
Bachelor of Engineering in Computer Science and Technology GPA: 87/100 Graduation: 06/2015

EXPERIENCE

- **Altomni Corp. – Software Developer** 07/2017 – now
 - Working on a Applicant Tracking System (ATS) in back-end team at an early-stage startup
 - Designing and developing RESTful API and service with Spring
 - Developing and optimizing job description parser and resume parser with Flask
 - Designing and optimizing structure of relational database, and crawling and populating data
 - Collaborating with front-end engineers to design the system
 - Developing integration tests using Rest Assured
 - Related Technologies: Java, Spring, Jhipster, Python, Flask, MySQL, AWS, Alibaba Cloud, Javascript
- **Shandong University, Machine Learning and Data Mining Lab – Research Assistant** 03/2014 – 01/2015
 - Research topic: Finger-knuckle-print Pattern Recognition
 - Came up with two phase ROI detection method. Then other researchers can do identification using the ROI images extracted by this method. Published the paper above as the lead author.
 - Related Technologies: Matlab, SIFT, SURF, Nearest Neighbor Search, Biometric Recognition
- **Peking University, Software Engineering Institute – Research Assistant Intern** 07/2013
 - Participated in the analysis and design of problem detection system by mining patterns of console logs
 - Related Technologies: Java, SQL, Text Mining, Principal Components Analysis
- **Publication: A New Finger-Knuckle-Print ROI Extraction Method Based on Two-Stage Center Point Detection.** Yu, Hongyang, Yang, G., Wang, Z. and Zhang, L. (EI included) 03/2015

PROJECTS

- **Restaurant Strategy Selection based on Yelp with Spark** Feb 2017 – Apr 2017
 - Task: Find which kind of restaurant strategy has more possibility to get success when startup
 - Extracted and transformed text features to numeric vectors from over 144,000 businesses on Spark
 - Trained Multilayer backpropagation neural network to do regression on Deeplearning4j
 - Related Technologies: Scala, Java, Spark, Deeplearning4j, Word2Vect, openNLP
- **Chess Game Data Processing on AWS EC2 Hadoop** Nov 2016 – Dec 2016
 - Task: Process large chess game data to analyze of winning percentage on AWS
 - Implemented Mapper, Reducer and Combiner, and customized FileInputFormat and Partitioner to select and sort matching information. Ran MapReduce jobs with 20 GB PGN type data on the AWS
 - Related Technology: Java, MapReduce, Hadoop, AWS
- **Hand-Eye Robotics Grasping Prediction with Deep Learning** Mar 2016 – May 2016
 - Task: Predict the best grasping pose of a robotic hand for objects with RGB-D images of scenes
 - Designed scoring function and collected large robotics grasping data
 - Trained Convolutional Neural Network (CNN) to predict the best grasping pose
 - Collected more than 30,000 grasp attempts with different scenes to train CNN prediction model
 - Related Technologies: Python, ROS, Point Cloud, Keras, TensorFlow, Scikit-learn

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, Scala, C/C++, Matlab, Swift, Objective-C, SQL
- **Web Technologies:** JavaScript/HTML/CSS, PHP, Scrapy, Meteor JS
- **Frameworks and Tools:** Spring, Flask, AWS, Spark, Hadoop, CUDA, MySQL, MongoDB, Maven, Git