Hongyang (Henry) Yu

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EDUCATION

- **Rutgers University**, New Brunswick, NJ   Master of Science in Computer Science
  GPA: 3.67/4   Anticipated Graduation: 05/2017
- **Shandong University**, Jinan, China   Bachelor of Engineering in Computer Science and Technology
  GPA: 3.5/4   Graduation: 06/2015

COMPUTER SKILLS AND COMPETENCIES

- **Programming Languages:**
  - ➢ **Proficiency**: Java, Python, Matlab, SQL
  - ➢ **Familiarity**: C++, C, Swift, Objective-C, PHP, HTML, XML, JS, JSON, MongoDB, Git
- **Application Software and Platforms:** Linux, MySQL, MongoDB, Apache, ROS, OpenCV, Point-Cloud

EXPERIENCE

- **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
- **Machine Learning and Data Mining Lab**, Shandong University - Research Assistant   03/2014 – 01/2015
  - ➢ Research topic: Finger-knuckle-print Pattern Recognition
- **Inno Student Lab**, Shandong University   10/2011 – 06/2015
  - ➢ Leadership: I was the team leader from May 2013 to May 2014
- **Software Engineering Institute**, Peking University - Research Assistant Intern   07/2013
  - ➢ Research topic: Software Problem Detection
  - ➢ Report: Problem Detection by Mining Patterns of Console Logs

PROJECTS

- **Song Recommendation System**   2015
  - ➢ Technology: Java, MySQL, Latent Factor Model, Matrix Factorization
  - ➢ Responsibility: algorithm design and music player implement in a 3-member team
- **Products Searching**   2016
  - ➢ Task: predicting the relevance of search results on homedepot.com
  - ➢ Technology: Python, SVR, TF-IDF, TLS, CDR, Okapi, JSON, MongoDB
  - ➢ Responsibility: text feature extraction and SVR implement in a 3-member team
- **Projects Instant Search**   2016
  - ➢ Task: searching project information from code library
  - ➢ Technology: MongoDB, JS, Meteor, JSON, Linux
- **Robotics Grasping**   2016
  - ➢ Task: predicting score of robotic grasping
  - ➢ Technology: Python, Point Cloud Library, Keras, Scikit-learn, CNN, SVR
- **Cluttered Objects Classification, Detection and Recognition**   2016
  - ➢ Task: predicting labels given bounding boxes of images
  - ➢ Technology: Python, Keras, CNN
- **iOS App TravelWorld**   2016
  - ➢ Task: introducing famous landscapes in the world to guide visitors
  - ➢ Technology: Swift, Xcode, MySQL
- **Other projects:**
  - ➢ **2015 – current:** 1. Optical character recognition (Java); 2. Face detection (Java); 3. Robotics pathfinding through unknown territory (Java); 4. Camera calibration and augmented reality (Matlab); 5. Image inpainting (Matlab); 6. Threads package implement (Linux, C); 7. Basic file system implement (Linux, C)
  - ➢ **2011 – 2015:** 1. MP3 player (Java); 2. Reversi game (Java); 3. Real estate marketing database system (PHP); 4. Fatigue detection (C++); 5. Robotic fish water polo game (C++); 6. Massive small files transfer (C++)