Ji Wang

Education

Carnegie Mellon University Pittsburgh, PA
Master of Science in Information Technology *Aug.2017 ~ Aug.2018 (anticipated)*
Nanjing University Nanjing, China
Bachelor of Engineering in Software Engineering *Sept.2012 ~ June 2016*

Experience

SAP (China) Shanghai, China
Software Engineer, full-time *Feb.2017 ~ Aug.2017*

- Developed backend of a contract account payable and receivable management SaaS application which migrates from On-premises to SAP HANA ***Cloud*** platform in ***Agile*** methodology (Scrum).
- Assisted Quality Assurance in extensive testing, detected and repaired bad code/design with empirical strategy, and from version control history.

Embedded System Laboratory of Software Institute, Nanjing University Nanjing, China
Research Assistant, supervised by Prof. Haitao Liu *Jan.2016 ~ June 2016*

- Designed an embedded mini car on the Arduino platform which can be monitored by either voice order or ***Android*** Device via Bluetooth.
- Explored a speech recognition toolkit (CMU Sphinx) and IflyTek API in Mandarin environment.

Selected Projects

Flight Delay Warning System *Feb.2018 ~ Mar.2018*

- Developed a simulated system to analyze and predict whether a flight will be delayed or not.
- Retrieved the latest available 12-month On-Time Performance data from Pittsburgh Airport, trained it on logistic regression, pruned trees, LDA, QDA, and random forest before finally selecting ***random forest*** as our model for prediction based on ***cross validation*** and confusion metric evaluation.

Online Banking System *Dec.2017 ~ Feb.2018*

- Developed a ***Java EE*** (Spring) web application to manage bank account, deposit a check (using web camera), transfer funds, apply for loan and repay loan in a ***Microservice*** architecture with ***REST***.
- Utilized 128-bit ***SSL encryption*** and stored generated ***hashed*** nonce of data like password for security.

UPMC Healthy Living Insurance *Sept.2017 ~ Oct.2017*

- Developed a simulated system to analyze and evaluate client's lifestyle (e.g. three meals) to provide insurance plan options accordingly, with an accuracy rate of over 90 percent.
- When the meal image is uploaded to Amazon S3, a ***lambda function*** will be triggered, in which Amazon Rekognition API is called to extract <feature, confidence> label data sets, with a score assignment and evaluation as output.

Skills

Programming languages: Java (proficient), Python, R, C/C++, SQL, HTML (Proficient), CSS, JS

Tools: Git, MS Office (proficient), LaTeX, Docker

Honors & Awards

- Outstanding Graduate of Nanjing University *2016*
- People's Scholarship *2014, 2015*