Zhuoli Liang

3 Years of enterprise experience

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TECHNICAL SKILLS

Programming language: C#, Python, Java, Go, C/C++
Environment: AWS, Workflow Automation, CI/CD, Keras, TensorFlow, Linux, Git

PROFESSIONAL EXPERIENCE

Software Developer Engineer Test, Amazon, Alexa platform Team   August 2016 – Current
- Identified the bottleneck of the continuous deployment on Alexa Developer Website Pipeline and proposed the automation workflow plan to reduce QA's manual tests
- Designed and implemented Automation Framework based on selenium; Wrote Wiki pages and trained QA engineers and developer team to use it for all EDW Web-side tests
- Greatly improved QA team's test efficiency to accelerate code release by shortening the required test time from weeks to days

Software Design Engineer, BitTitan, Kirkland, WA   March 2015 – August 2016
- Responsible for email migration tool - LotusExtractor, independently refactored WCF Clients-Server proxy to break the existing performance bottleneck by fixing a bunch of concurrency conflicts and replacing the synchronized communication model to asynchronized one
- Implemented sensitive data scan for the ongoing migration data stream by regex matching
- Independently designed, implemented integration tests for both IBM email migration tool and Windows SQL server migration tool

Software Engineer, **Co-Op, MassMutual Financial Group**, Boston, MA   January 2014 – June 2014
- Cleaned raw data in Knowledge System and built a **MySQL** database then classified using **Naïve Bayes Classifier**
- Visualized business data and identified patterns between team members' performance and their personal traffic log using **Python** and **Matplotlib**
- Developed full stack for data-visualization website using **Tomcat/JPA** with HTML, CSS, **JavaScript** and D3 Library
- Integrated team project using CI/Jenkins and used Git as distributed revision control system

PERSONAL EXPERIENCE

Earning Manager: **https://github.com/Zhuoli/EarningManagement**   November 2015 – Current
- Designed a stock assistance application running on AWS EC2 for my real-time shares monitor
- Wrote multi-thread tasks running synchronously for parsing Nasdaq websites, listening on Robinhood emails and updating MySql database
- Used maven for dependence management, JOOQ for object-relational mapping, Grails for front-end
- Setup email connector and Amazon SNS to send me Gmail alert and SMS whenever there is an alert ready
- Continuous integration using AWS CodeDeploy, Pipeline and Solanolabs

Deep learning 101: https://github.com/Zhuoli/DeepLearning101   November 2016 – Current
- Learned the basic knowledge of FFN, CNN, LSTM through online courses; Compared the machine learning tools between Keras, Tensorflow, MXNext
- Used Keras to build a feed forward neural network on handwritten digits recognition problem and achieved ~93% accuracy.
- Achieved Kaggle's Titanic survival Prediction competition by cleaning raw data using Python pandas library and set up neural network using Keras Highway model.

VPN project for Chinese Great Fire Wall: http://www.tomandjerry.**tech**   September 2015 – October 2016
- Inspired by huge demand on browsing foreign websites but blocked by Chinese GFW, I launched a VPN server website with another partner aimed to help Chinese users to connect to the World.
- Held host service on AWS EC2 and building website using Grails Framework to gain the script benefit of Java
- Set up worker machines to handle VPN server, and implemented load balance proxy to scale and assign VPN workload.

EDUCATION:

Northeastern University, Boston, MA, **GPA 3.4/4.0**   September 2012 – December 2014
Master of Computer Science
Shenzhen University, P.R. China, **GPA 3.8/4.0**   September 2008 – June 2012