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

Amazon, Alexa platform Team   Aug 2016 – Current
500 Boren Ave N, Seattle, WA 98109
- 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 Dev teams to use it for all EDW Web-side tests.
- Successfully improved QA team's test performance from weeks to a few days before signing off the code release.

BitTitan, Software Design Engineer   March 2015 – Aug 2016
3933 Lake Washington Blvd NE #200, Kirkland, WA, 98033
- Responsible for email migration tool - LotusExtractor, independently refactored WCF Clients-Server proxy to remove the existing performance bottleneck by fixing a bunch of concurrency conflicts and replacing the synchronized communication model to asynchronized one.
- Real-time Sensitive Data scanning for the ongoing migration data stream.
- Independently designed, implemented Integration test for two Remote Agent products.

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   Nov. 2016 – Current
- Learnt the basic knowledge of FFN, CNN, LSTM through online course.
- 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   Sept 2015 – Oct. 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
- Setting up worker machines to handle VPN server, and implementing load balance tools 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