Xiaolu(Lucia) Yang

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Summary

Seeking a full-time software engineer position.

Proven experience in object-oriented programming, database maintaining, front-end technologies and testings on variety system platforms and operating systems. Strong problem-solving and communication skills. Passionate team player and fast learner.

Education

- **Rutgers-New Brunswick,** New Brunswick, NJ   **2015/09 – 2017/05**
  Master of Science in Computer Science

  Coursework: Operating System, Introduction to Artificial Intelligence, Data Structure and Algorithms, Regression Analysis, Software Engineer Web Application, Computer System Security

- **Tianjin Polytechnic University,** Tianjin, China   **2010/09 – 2014/06**
  Bachelor of Engineering in Network Engineering

Technical Skills

- **Languages**: Java, GoLang, JavaScript, Objective-C, Swift, Bash script.
- **Technologies:** HTML,CSS, jQuery, AJAX, ReactJS, Bootstrap, Docker, AWS(S3), PostgreSQL, CouchDB, Drill.
- **Tools and IDEs**: GitLab, SVN, RESTful services,, Intellij IDEA, Eclipse, VSCode, iTerm2.

Work Experiences

Back-End Web Developer, *ApplySquare Technology Co.,Ltd*   **05/2016 – 09/2016**

Coded and developed new solutions and maintained existing program code in GoLang. Provided technical support during design and code reviews for functional changes with technologies including: CouchDB, Docker, AWS, etc. Accomplished essential Unit Test.

- Constructed a log system, implemented key functions including: user's behavior collection, local logs archive, and synchronization on AWS S3. Improved the performance by log file compression and concurrency writing.
- Designed a web application to query raw JSON files for Data Analysis Team. Developed the front-end by Haml, CSS, JavaScript, back-end by GoLang and ApacheDrill. Implemented functionality of front-end query by building handlers with RESTful APIs. Utilized CouchDB to accomplish storage of query logging.
- Developed an effective tool to dump files remotely among CouchDB, local files and S3(AWS). Maintained the archives with no redundant files.

QA&Tester, *Sogou, Inc*   **11/2014 – 06/2015**

Designed test process to ensure correctness, stability and compatibility of the website. Tracked the outcomes and adjust the process to meet the expectation.

- Wrote test plans based on the analysis of requirement documents and Use Cases for each project.
- Designed valid test cases independently and deployed test environment on VM through Nginx. Established connections among searchhub, openhub, and data center to test functions with Linux command and Shell.
- Benchmarked the search results on webpage by evaluating the influence of corner use cases. Participated in Load Testing and Stress Testing to evaluate stability of the website under extreme workload using automatic tools and scripts.

Selected Course Projects

Stock Assistant   **01/2016 – 04/2016**

Deployed price prediction system for stock, accomplished stock queries, predictions and visualized prices trend.

- Built the website by XAMPP. Designed an interactive web page utilizing BootStrap and JavaScript, AJAX and GoogleChart API. Captured real-time and history stock data from Yahoo Finance API by web crawler in PHP.
- Performed short-term predictions of stock price using Bayes filter algorithm and three-layer Artificial Neural Network. Implemented SVM for long-term predictions.

Handwriting Digit Recognition   **01/2016 – 04/2016**

Classified handwriting digits by deep learning techniques, focused on the difference between Convolutional Neural Networks and Spiking Neural Networks.

- Implemented CNN accessing to MNIST dataset based on Python Theano. Constructed LeNet5 with convolutional, pooling layers and hidden layer. Applied Softmax regression in classification layer.
- Analyzed recognition results of CNN and SNN. Tuned parameters like learning rate and applied techniques like dropout for performance evaluation including testing time and accuracy.

Clipboard Testing   **09/2015 – 04/2016**

Tested a Clipboard Management software using standard test technics.

- Implemented black-box test by designing user cases, and programmed white-box test including unit test, integration test by JUnit Test Framework.
- Evaluated the performance of the software by mutation test and regression test.