Haoran (Simon) Liang

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Education

Rose-Hulman Institute of Technology, Terre Haute, IN   September 2009 - May 2013
Bachelor of Science in Computer Science and Computer Engineering
GPA **3.75/4.00** in Major, **3.53/4.00** Overall

Technical Skills

Strong Language: Java, Scala, Python
Knowledgeable Language: JavaScript (AngularJS, React, node.js), Objective-C
Technology: Akka, Elasticsearch, Docker, Mesos, Spark, Kafka, AWS (S3, Lambda, Kinesis), OpenCV

Experience

Engineering Director   August 2016 - Present
Beijing Hooli LLC., Beijing, China
- Lead Engineering Team of 8 and iterate on product features
- Gather client requirements and lead engineering team to design and deploy log analysis solution
- Help refine product roadmap for Hooli's Real-time Data Analysis and Search Engine

Software Development Engineer   August 2013 - May 2016
Amazon Fashion, Amazon, Inc., Seattle, WA, USA
- Worked with a large variety of technologies as a full-stack developer
- Developed and maintained Amazon Fashion Pages on Amazon Website and Native iPad Application
- Developed and prototyped enhanced UX web applications for fashion-engaged customers at Amazon

Projects

Lead Developer, Hooli XYZ, Beijing Hooli LLC., Beijing, China *Real-time Data Analytics and Search Engine*   August 2016 - Present

- Designed a distributed data analytics engine that transforms unstructured data into searchable indices using *Akka*, *Spark* and *Elasticsearch*
- Improved Indexing performance from 5000 events/s to 50000 events/s by switching from *Logstash* to a custom solution built with *Spark Streaming* and *Akka*
- Refactored and scaled *Elasticsearch* cluster to index 100TB+ data with sub-second search performance
- Partnered with a data scientist advisor to design and implement an Anomaly Detection feature using BIRCH algorithm

Lead Developer, Bra Fitter, Amazon Fashion, Seattle, WA, USA   July 2015 - January 2016
Desktop Web Application that helps female customers find fitting bras
- Built frontend using a slim Virtual-DOM-Based JavaScript Framework, `mithril.js`, for uni-directional data flow
- Designed an AJAX-streaming technique to decrease the Above the Fold latency from `1500ms` to `250ms`, and made the service calls highly parallelized

Activities

Coordinator and Instructor, HackerCamp, Guangzhou, China   June 2016 - July 2016
Bootcamp that teaches students (K-12) computer science
- Held a 7-day bootcamp on various computer science concepts such as programming language, network, robotics and Machine Learning
- Designed the course that helps students to understand the concepts via various projects and activities, such as game development projects, drone programming and VR glasses assembly