Shen Huang

Summary

I am a software developer, passionate in top niche tools for analyzing data. I have solid knowledge of Python, Java, C/C++ and work well with Spring, Django. Well familiar with MEAN (MongoDB, Express, Angular, Node) stack. And I have experience with Hive, Hbase bid data frameworks. I prefer to get an intern for software engineer.

Education

Aug. 2016 -
Master of Science, Computer Science, University of Colorado Boulder, *Boulder, CO.*

Aug. 2012 -Jun. 2016
Bachelor of Engineering, Computer Science, Nanjing University of Science & Technology, *Nanjing, P.R. China.*
Overall GPA: 3.6, CS major GPA: 3.6/4.0 Rank: 5%

Work Experience

Jan. 2016 -May. 2016
Software Engineer Intern, *Future Network institute*, Nanjing, P.R. China.
- Mainly used **Java** to help build a system for analyzing nationaly network flow.
- Collected and analyzed the data from AP and WiFi using **Cloudera**.
- Used **Hive** and **Hbase** to deal with the whole log data provided by monitors.
- Utilized **Spring MVC** to deal with RESTful services and **myBatis** for ORM.
- Developed an API for **Redis** and wrote unit test in **JUnit**.

Sep. 2016 -
Lead Developer, *University of Colorado Boulder*, Boulder, CO.
- Built a website that people can create an event and other can participate in this event.
- Mainly utilized **myBatis** and **Spring** to build the back-end system.
- Designed front-end UI by Twitter **Bootstrap** and used **React** for building user interface.

Apr. 2014 -Jul. 2014
Lead Developer, *Huawei Technologies Co. Ltd*, Xiamen, P.R. China.
- Designed a smart answering robot service system by **Python Django**.
- Utilized knowledge of Q&A corpus to manage responses to questions.
- Implemented **word embeddings** by employing supervised learning techniques.
- Created a service robot capable of responding to users' tourism queries.

Student Project

Jul. 2016 -Aug. 2016
Pandaman Generator, *University of Colorado Boulder*, Boulder, CO.
- Developed a **Python** tool to generate pandaman avatar using **OpenCV**.
- Trained a **AdaBoost** classifier to select the face in a picture.
- Used a **filter** function to deal with the face and put into a pandaman avatar.

Sep. 2016 -Sep. 2016
Boulder News, *University of Colorado Boulder*, Boulder, CO.
- Utilized a **Python Tornado** to build a website (weather.alwa.info) to track weather in Boulder.
- Wrote a spider program via **Python Requests** to get data from weather.com.
- Developed a system if the weather varies, it will send email and message to alert.

Oct. 2015 -Dec. 2015	**MusicFM website**, *NJUST*, Nanjing, P.R. China.
	○ Built an online music website (music.smilebooky.com) using **Node.js** and **Express**.
	○ Developed a **Python** sipder program to get all the music information(10 million songs) in an online music platform. Tried to analyzed and visualized all the data via **d3.js**.
	○ Performed ORM and routing assignment using **MongoDB** as database.
	○ Designed front-end UI by **Bootstrap** and **Angular**.
	○ Implemented a **Collaborative Filtering** algorithm to recommend top 5 songs.

Research Experience

Sep. 2015 -Jul. 2016	**Research Assistant**, *Pattern Recognition and Bioinformatics Group in NJUST*, Nanjing, P.R. China, Supervised by Dongjun Yu.
	○ Tried to solve a protein problem of predicting high-dimensional structural information via little information of protein sequence.
	○ The traditional strategy for this topic used machine learning methods. Implemented these and proposed a new feature extraction method, which used 3D information of predicted protein.
	○ Tried to use **DNN model** in this problem and succeeded to get higher AUC in this problem.
Apr. 2016 -Jun. 2016	**Research Assistant**, *NJUST*, Nanjing, P.R. China.
	○ Built a machine learning framework for designing a robot, which used for detecting moving obejects via embedded device.
	○ In charge of designing unmanned vehicles with automatic target recognition and path planning function.
	○ Implemented Faster **RCNN model** for Real-time target detection.
	○ Applied the detection algorithm in **Nvidia Tegra K1** platform.

HONORS & AWARDS

Mar. 2016	**Outstanding Graduate**, *NJUST*, Nanjing, P.R. China.
Mar. 2016	**Prize for Excellence in Asia Student Supercomputer Challenge**, *Inspur Group Co., Ltd.*.
Nov. 2015	**Bronze Medal in ACM/ICPC - Beijing Regional**, *ACM*.
Oct. 2015	**Outstanding Students Award**, *China Computer Federation*.
	Represented university to get this award
Jul. 2014	**Silver Medal in ACM/ICPC - Shanghai Inivation Contest**, *ACM*.
Jun. 2014	**1st Prize in "Bluebridge" Cup National Software Design Contest**, *Ministry of Industry and Information Technology*, Beijing, P.R. China.
	Got a rank of 3/10K in National Final
Nov. 2013	**Bronze Medal in ACM/ICPC - Changsha Regional**, *ACM*.

Computer Skills

Languages:	**Python**, **Java**, **C/C++**, JavaScript, Mathematica
OS:	Linux(Ubuntu, CentOS), Windows
Database:	MySQL, MongoDb, Hbase

Extra

○ Member of the Google Developer Groups Sub (Be invited to Google I/O 2016)
○ Help Huawei Technologies Co. set about 300 interview questions in their system
○ Teaching Assistant for Course of C Programming Language for International Students