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 big 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 **Data Science Engineer Intern**, *Future Network institute*, Nanjing, P.R. China.
- Mainly used **Java** to help build a system for analyzing national 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.

2156 Grove Cir W, Apt 2 – Boulder, CO 80302
(303) 243-2881 ▪ *Shen.Huang@Colorado.edu* ▪ *alwa.info*
▪ *https://github.com/LichAmnesia*

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, AWS

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

2156 Grove Cir W, Apt 2 – Boulder, CO 80302
(303) 243-2881 ▪ *Shen.Huang@Colorado.edu* ▪ *alwa.info*
▪ *https://github.com/LichAmnesia*