

2156 Grove Cir W, Apt 2

Boulder, CO 80302

☎ (303) 243-2881

✉ Shen.Huang@Colorado.edu

📧 alwa.info

<https://github.com/LichAmnesia>

Shen Huang

Summary

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

Education

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

Research Experience

- Sep. 2015 - **Research Assistant, Pattern Recognition and Bioinformatics Group in NJUST, Nanjing, P.R. China,**
- Jul. 2016 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 - **Research Assistant, NJUST, Nanjing, P.R. China.**
- Jun. 2016
- Built a machine learning framework for designing a robot, which used for detecting moving objects via embedded device.
 - In charge of designing unmanned vehicles with automatic target recognition, tracking system, and path planning function.
 - Implemented Faster **RCNN model** for Real-time target detection.
 - Applied the detection algorithm in **Nvidia Tegra K1** platform.

Work Experience

- Jan. 2016 - **Data Science Engineer Intern, Future Network institute, Nanjing, P.R. China.**
- Apr. 2016
- 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.
 - Developed an algorithm in to track each person's network behavior in the whole system.
 - Utilized **Spring** to deal with business logic processing and **myBatis** for ORM.

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

Student Project

- Oct. 2015 **MusicFM website, NJUST**, Nanjing, P.R. China.
-Dec. 2015
 - o Built an online music website (music.smilebooky.com) using **Node.js**.
 - o Developed spider programer 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**.
 - o Performed ORM and routing assignment using **MongoDB** as database.
 - o Designed front-end UI by **Bootstrap** and **Angular**.
 - o Implemented a **Collaborative Filtering** algorithm to recommend top 5 songs.

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..**
Designed and optimize algorithms in HPC, and tried to optimize the **DNN** program on the **CPU + MIC** Platform
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.**
Sep. 2012 **1st Prize Scholarship, NJUST**, Nanjing, P.R. China.
-Jun. 2016 Won every year in university

Computer Skills

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

Extra

- o Member of the Google Developer Groups Sub (Be invited to Google I/O 2016)
- o Teaching Assistant for Course of C Programming Language for International Students