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<https://github.com/LichAmnesia>

# Shen Huang

## 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 to track each person's network behavior in the whole system.
- Apr. 2014 - **Lead Developer, Huawei Technologies Co. Ltd, Xiamen, P.R. China.**
- Jul. 2014
- Designed a smart answering robot service system by **PHP**.
  - 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.

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## 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 sipder 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.

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## 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

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## Computer Skills

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

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## 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