

2156 Grove Cir W, Apt 2

Boulder, CO 80302

☎ (303) 243-2881

✉ Shen.Huang@Colorado.edu

📧 alwa.info

Shen Huang

Computer Skills

Languages: Python, C/C++, Ruby, JavaScript, Mathematica, Matlab

Experience

September 2015 - July 2016 **Researcher in Machine Learning, Pattern Recognition and Bioinformatics Group in NJUST**, Nanjing, 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 is using machine learning methods. Implemented these and propose a new feature extraction method.
- Tried to use DNN model in this problem and succeeded, which was not shown work in this field.

April 2016 - June 2016 **Computer Vision Engineer, NJUST**, Nanjing, China.

- Participated in Robomasters Competition, which is a robot design and computer vision competition.
- Was in charge of designing unmanned vehicles with automatic target recognition, tracking system, and path planning function, which can automatically fire shells to fight against enemy unmanned vehicles.
- Used structural features to design a target tracking algorithm.
- Implemented Fast RCNN model for recognizing the target in the video from the unmanned vehicles.

March 2016 - April 2016 **Compete in ASC Student Supercomputer Challenge, Inspur Group Co., Ltd.**, China.

- Won Prize of Excellence in the challenge.
- Designed and optimize algorithms in HPC.
- Used HPCG Test to get highest possible efficiency.
- Gave an useful optimization for the DNN program on the CPU + MIC Platform.

January 2016 - April 2016 **Data Science Engineering Intern, Future Network institute**, Nanjing, China.

- Analyzed the data provided by AP and WiFi monitors every day.
- Used Spark to deal with the whole log data provided by monitors.
- Developed a model to track each person's network behavior in the whole system.

October 2015 - January 2016 **MusicFM website, NJUST**, Nanjing, China.

- Built an online music website (music.smilebooky.com) using node.js.
- Performed ORM and routing assignment using MongoDB as database.
- Designed front-end UI by using Bootstrap and Angular.
- Implemented a recommendation system by using clustering methods to recommend top 5 songs.

Education

Fall 2016 - **M.S., Computer Science, University of Colorado Boulder**, Boulder, CO.

Fall 2012 - Summer 2016 **Computer Science, Nanjing University of Science & Technology, Nanjing, China**, Overall GPA: 3.6.

CS Majors GPA: 3.6 Rank: 2

Extra

- Contributor to open source projects - see <https://github.com/LichAmnesia>
- 5th Overall, Bronze Medal in the ACM - International Collegiate Programming Contest
- 3rd in the National Software Design Contest
- Outstanding Students Award in China
- Member of the GDG Sub