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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 recoginizing 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.
- Aanlyzed 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