

Duo Chai

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EDUCATION

University of Science and Technology Beijing

Beijing, China

Major in Computer Science and Technology, Bachelor of Engineering, expected in 06 2017

09/2013-06/2017

WORK/INTERN EXPERIENCE

EMOTIBOT Co., Limited

Beijing, China

Intern as Deep Learning Engineer

06/2016-11/2016

- Research and development of sentence-to-sentence semantic similarity model for intelligent AI agent
- Built and deployed CNN + bi-GRU model using Keras/Tensorflow/pre-trained Word2Vec
- Achieved 35% lower error rate reduction compared to the previous model
- Deployed deep learning model to production cloud in Docker container
- Handled full machine-learning project cycle: Data labelling/Review, model training, evaluation, deployment and badcase fixing

JiSuanKe: Online Education Company

Beijing, China

Intern as Algorithm Engineer

04/2015-06/2016

- Developed coding style evaluation and cheating detection system with HMM algorithm and abstract syntax tree
- Setup a new research department and recruited about 20 interns/employees, including ACM contestants and Tsinghua students
- Designed coding contest held in Xi'an city
- Reviewed and corrected C/html+css/js courses
- Translated ~1000 ACM-ICPC problems from English to Chinese

RESEARCH EXPERIENCE

Book Recommendation System for School Library

04/2016

- Crawled ~3 million books' metadata from Douban
- Developed user-based and item-based collaborative filter algorithm for the recommendation system
- Improved results by cooperating user-created labels in the recommendation algorithm
- Solved cold-start problem by analyzing profile and their search patterns

Ketangdongli (Classroom Dynamics) APP Development

12/2015 - 12/2016

Supervisor: Wang Hongbo, Professor

- Designed an APP on iOS/Android to assist classroom teaching
- Developed backend with Python and Flask and MongoDB
- Designed and implemented REST API

SRTP: A Text Classification Tool

12/2014 - 12/2015

- Performed NLP tasks such as Chinese word segmentation
- Experimented with supervised classification algorithms such as SVM and Boosting, and unsupervised learning algorithms such as clustering

Detection and Recognition of License Plate in Video Streams

06/2014

Supervisor: Duan Shihong, Associate Professor

- Used Matlab to do vehicle detection, vehicle license plate recognition, and vehicle identification in video streams

EXTRACURRICULAR EXPERIENCE

HackxFDU

10/2016

Leader

- Developed an APP that rates similarity between two short videos
- Recruited team members and led the team in brainstorming and implementation of the project

Campus Promotion Activities of JetBrains

06/2015-06/2016

Campus Ambassador

- Responsible for JetBrains code tool promotion
- Conducted research about JetBrains' market influence
- Optimized JetBrains' network performance in China
- Communicated with the staff from Czech headquarters

Source Tech Association

05/2015-06/2016

Vice President

- Responsible for technical training and day-to-day management

HONORS & AWARDS

Second Prize in International Contest of InnovAtioN in China

10/2016

Awarded Third-Class People's Scholarship

10/2016

Second Prize in "Lanqiao Cup" Programming Contest in Beijing

03/2015

Second Prize in National Olympiad in Informatics in Provinces

11/2012

SKILLS & INTERESTS

Technical Skills: Python, Java, C/C++, Tensorflow/Keras, Matlab, Docker, Linux, Algorithm analysis and design, Software design patterns etc.

Languages: Mandarin, English (Proficiency in oral communication)

Interests: Chess, Sports, Music (Piano and A cappella) etc.