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Fenghua CHENG
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EDUCATION

Shandong University 09/2017~06/2021
- *Bachelor of **Engineering** in **Computer Science and Technology** (Sino-Australia Cooperative Program)*
- GPA: 84.81/100

Australian National University 07/2019~06/2021
- *Bachelor of **Advanced Computing (Honours)***, GPA: 6.294/7.0
- First Class Honours (H1)

INTERNSHIP EXPERIENCE

Software Development Intern, **Xi'An Highway Research Institute Nanjing Branch** 12/2020
- Participated in the demand research and intelligent check-in function module development of Jiangsu Sujiahang Expressway Intelligent Check-In Machine Inspection Systems

Research Intern, **The 716th Institute of China Shipbuilding Industry Group Co,. Ltd** 07/2021~09/2020
- Participated in research of event extraction in military corpora, used several state-of-art deep learning methods including DBRNN and DMCNN and looking forward to propose some improvement on these models' performance on military corpora.

RESEARCH EXPERIENCE

ezForm 07/2020~Present

Advisor: Associate Prof. Zhenchang Xing
- Implemented the first section that using OCR to convert a paper form to an editable form; implemented detection of different sections in a form by using NLP techniques; the relationship analysis between items in the form and other functions based on the relationship analysis is still in progress

Implementation of Several Algorithms in Computer Vision 02~06/2020

Advisor: Associate Prof. Nick Barnes
- Used Gaussian filter to reduce image noise and performed Sobel filter to extract image edge information
- Implemented Harris Corner and non-maximum suppression algorithms to detect corner points in images, and explored the influence of different window sizes in the two algorithms on detection performance respectively
- Carried out Kmeans algorithm, applied it to color image segmentation, and compared the performance differences between traditional Kmeans and Kmeans ++
- Realized face detection based on Eigenface
- Implemented camera calibration, analyzed camera calibration matrix, and figured out intrinsic matrix
- Used DLT algorithm to calculate homography matrix and realize image homography transformation

Hotel Management System 02~06/2019

Advisor: Associate Prof.Wenyu Wang
- Implemented a hotel management system with three parts and many functions including customer information management, employee information management, employee authority management, room reservation system, guest checkout, penalty system and member points system, by Java and SQL database

OTHERS

Programming Languages: Python (3 yrs.), C (3 yrs.), C++ (3 yrs.), Java (3 yrs.), Ada (1 yr.), Chapel (1 yr.), SQL (3 yrs.), R (1 yr.)

Skills: Good at machine learning, computer vision and nlp. Got 81 in Statistical Machine Learning and 85 in Document Analysis. Good at Research, Got 84 in Advanced Computing Research Methods and 83 in Advanced Computing Research Project.

Languages:

English: Intermediate, IELTS 7.5.

Mandarin: Advanced, Native speaker.

THANKS FOR READING