

Zhikang Feng

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Education

- **B.Eng.**, *Department of Computer Science and Technology, School of Computer Science, Northwestern Polytechnical University (NPU), Xi'an, Shaanxi Province, China* **2017/09–2020/07**
 - GPA: 3.81/4.33
 - **Fresh Undergraduate**, *Department of Physics, School of Natural and Applied Sciences, Northwestern Polytechnical University (NPU), Xi'an, Shaanxi Province, China* **2016/09–2017/07**
 - Transferred to the Department of Computer Science in NPU
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Expertise and Skills

- Programming: Python, C/C++, JAVA, JavaScript, SQL
 - Library: Pytorch, MXnet, TensorFlow
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Professional Experience

- (1) **Software Engineer Intern**, *GTS, Operator BG, The Western Research Institute, Huawei Technology Co., LTD, Xi'an, China* **2019/07–2019/08**

Project: Operations and development of the OWS platform

- Constructed and maintained various versions of the OWS development platform in Linux system, and provided fully functional and available test platforms (OWS) for other developers.
- Designed services and pages on the front-end to implement new functions of the development platform, via editing JS scripts and SQL scripts.

- (2) **Research Assistant**, *The Center of Optical Image Analysis & Learning, School of Computer Science, NPU, Xi'an, China (Supervisor: Dr. Feiping Nie)* **2019/05–2019/09**

Project: Image retrieval based on semi-supervised learning to hash

- Conducted experiments on CIFAR and ImageNet based on CNN13 and AlexNet to generate hash code in the way of semi-supervised learning.
- Evaluated the accuracy of the generated hash code with mAP.
- Co-authored a journal paper (to be submitted to IEEE Transactions on Multimedia (TMM)).

- (3) **Member**, *Key Class of Compiler Construction Principles, School of Computer Science, NPU, Xi'an, China (Supervisor: Dr. Yi Lin)* **2019/03–2019/06**

Project: C language compiler based on C0 grammar

- Designed a compiler with recursive descent based on C0 grammar, which can output corresponding quaternary, intermediate code and assembly instruction for a given C language code.

- (4) **Research Assistant**, *The Key Laboratory of Speech & Image Processing, School of Computer Science, NPU (Supervisor: Dr. Peng Wang)* **2018/07–2018/12**

Project 1: Object detection and key points location based on Resnet

- Marked the license plate data and adjusted Resnet to output the coordinates of the vertices of the license plate, and realized the visualization of license plate location.
- Classified clothing pictures from Deep-fashion and located clothes according to different categories.

Project 2: Semantic segmentation in PASCAL based on FCN optimized by SyncBN

- Realized image segmentation based on FCN with the functions provided by MXnet.
- Evaluated image segmentation with mIoU.
- Accelerated the programing process and optimized the segmentation by Cross-GPU SyncBN.

Extracurricular Activities

- (1) **NPU Cycling Association** **2017/06-2018/06**
- As the president, coordinated and managed all activities and affairs of the association.
 - Co-authored a conference paper: *“Analysis of the risk and protection in cycling”*
 - Cycling association was rated with four stars in the annual rating competition.
- (2) **NPU Publicity Team** **2018/02**
- Introduced NPU to the students in the high school where I graduate from and made the only presentation.
 - Was rewarded as outstanding campus ambassador.
- (3) **NPU Freshmen Students Welcoming Group** **2017/08&2019/08**
- Guided and led new NPU students through orientation activities.
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Scholarships

2019 College Scholarship, Outstanding student of the School of Computer Science, NPU

2018 College Scholarship, Outstanding student of the School of Computer Science, NPU

2017 College Scholarship, Outstanding student of the School of Natural and Applied Sciences, NPU

Awards

2019 National Collegiate Students Innovation Training Projects

Project *“Online shopping product display based on multi-angle 3d reconstruction”*

2019 National Collegiate Students Innovation Training Projects

Project *“Safety driving assistance and evaluation system for Internet of Vehicles”*

2019 The 4th NPU Innovation and Entrepreneurship Projects

Project *“Big data and information system”*

2019 The 2nd Award, E-commerce “Innovation, Creativity and Entrepreneurship” Challenge

Project *“Reconstruction of e-commerce site planning”*

2018 The 3rd Award, The 19th NPU Mathematical Modeling Contest

Project *“Author analysis of ‘Dream of the Red Chamber’”*