XINYI ZHENG (CAROL ZHENG)

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EDUCATION

University of Michigan, Ann Arbor, MI　　　　　　　　　　　　　　　　　　　　May 2019
Bachelor of Science in Engineering in Computer Science Engineering, Minor in Math　　GPA: 3.88/4
Coursework: Operating Systems, Machine Learning, Continuous Optimization Methods, Numerical Methods, Computer Organization, Data Structure and Algorithms

Shanghai Jiao Tong University, Shanghai　　　　　　　　　　　　　　　　　　　Aug. 2019
Bachelor of Science in Engineering in Electrical and Computer Engineering　　　　　GPA: 3.63/4

SKILLS

Computer: C/C++, Python, Matlab, Html/CSS, MySQL, LaTeX, Mathematica, Arduino and R
Arts: Lightroom, Photoshop and Indesign　　　　　　*Languages*: Chinese(native), English(fluent)

EXPERIENCE

Shanghai Jiao Tong University, Shanghai　　　　　　　　　　　　　　May 2017 - Aug. 2017
Teaching Assistant of SU2017 Vv255(Honors Calculus III), UM-SJTU Joint Institute
- Taught a review class and held office hour every week in English to help more than 200 students review the materials
- Graded homework sets every week and graded three exams throughout the semester

Sinolink Securities, Shanghai　　　　　　　　　　　　　　　　　　Dec. 2016 - Feb. 2017
Software Engineer Intern
- Conducted data-preprocessing with MySQL, including filtering useless data and labeling data
- Selected data and review selected data for project manager based on clients' requirement
- Contributed to Public Opinion System, using open source Python library JIEBA to classify text in Chinese, capture keywords, and analyze mood in news texts

PROJECT EXPERIENCE

Michigan Institute for Data Science, Ann Arbor, MI　　　　　　　　　　Mar. 2018 - Present
Research Assistant, Analytics for Learners as People, advised by Professor Rada Mihalcea
- Implemented a twitter crawler and collected text and image data of student volunteers, constructed a stream for social media activities
- Designed an Instagram crawler, and wrapped it up as a command line application

University of Michigan, Ann Arbor, MI　　　　　　　　　　　　　　Feb. 2018 - Mar. 2018
Culinary Classifier with Deep Convolutional Neural Network
- Designed and implemented a deep convolutional neural network based on ResNet and Residual Link, and trained with cross entropy loss
- Constructed an autoencoder for culinary classifier, and made comparison with CNN
- Tested the CNN on Culinary dataset (more than 10k images) with 8 categories, and get around 60% test accuracy

University of Michigan, Ann Arbor, MI　　　　　　　　　　　　　　Dec. 2017 – Jan. 2018
Chinese news search engine with recommendation system based on JIEBA, Flask
- Extracted URL, analyzed HTML and constructed web spider based on XML and BeautifulSoup
- Constructed index system with SPIMI-INVERT algorithm, used TFIDF model to select news posts, and built recommendation system based on JIEBA text classification and keyword extraction
- Built a web search engine based on flask, supporting news searching and ranking selection

Shanghai Jiao Tong University, Shanghai　　　　　　　　　　　　　Sept. 2016 - Sept. 2017
Research Assistant, Visualizing Crack Propagation, advised by Prof. R. Dugnani
- Designed circuits for material experiments, using transistors and amplifiers to gain signal from high-speed camera
- Used Matlab to conduct regression analysis on the data of crack propagation and give a typical mathematical model for crack propagation in certain ductile material

LEADERSHIP

Michigan China Forum, Ann Arbor, MI　　　　　　　　　　　　　　Nov. 2017 – Present
President of Liaison Department
- Apply for Student Activity Funding on Campus to raise money for Michigan China Forum
- Outreach companies that are related to Michigan China Forum in different aspects, and collaborate with them to get funding
- Keep accounts, collect budgets and approve expenses

Xuebacoming, Shanghai　　　　　　　　　　　　　　　　　　　　June. 2015 – Oct. 2015
Co-founder
- Designed API on Wechat Platform, including automatic response and matching resources
- Led the Investment Department and got Angel-round investment from *Juntai Partner*

AWARDS AND HONORS

3rd place, Bloomberg Coding Challenge, **University of Michigan, MI**　　　　　　　Nov. 2017
Dean's List, People's Scholarship, **Shanghai Jiao Tong University, Shanghai**　　Aug. 2017, Dec. 2016, Aug. 2016, Dec. 2015