

Joyce (Yunshu) Zhang

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EDUCATION

Northwestern University

Fall 2020 – Present

- Master of Science, Computer Science

Pennsylvania State University - University Park

GPA: 3.83/4.00

Aug 2016 – Spring 2020

- Bachelor of Science, Computer Science; Statistic- Applied Option; Mathematics- Systems Analysis Option
- Academic Honors: Dean's List of the Engineer College in Penn State University, Cum Laude
- Courses: Data Structures Algorithms, Machine Learning and AI, OS Design, OOP, DBMS, Network, System Programing, Time Series, Regression, Computation Statistics

SKILLS

Programming Languages: Python, Java, C, JavaScript, HTML, PHP, R, CSS, MATLAB, Minitab

Framework: React, Flask, MySQL, AWS, Docker

Operating Systems: Linux, Windows, Mac OS

EXPERIENCE

Software Development Engineer, Melax Technologies Inc., Houston,

Summer 2019

- Interned in a leading NLP-based clinical data extraction, analysis and integration team in Texas Medical Center
- Utilized CLAMP tool and deep learning BioBERT model for the development of a comprehensive machine learning medical informatics system; configured Docker and AWS environment for the team
- Participated in N2C2 2019 National NLP Clinical Challenges, using CLAMP NLP for medical data normalization, name entity encoding, clinical information extraction and recognition solution

Research Assistant, Penn State Emotion Modeling Project, University Park

2018-2019

- Specialized in the visual data indexing and modeling that focuses on the project that extracted and characterized linguistic features of image data related to color, texture, shape, and location
- Developed computer algorithms that used statistics model and machine learning to predict human emotional response to visual data

Test Analyst, Pactera Technology Ltd, Beijing, China

Summer 2018

- Built test cases for company developed Electronic Toll Collection System (<https://www.bjetc.cn/Index.aspx>)
- Tested mobile deployment; generated reports on client registration, toll sales and toll booth utilization

PROJECT

Donation Collector (React, CSS, Spring boot, Hibernate, AWS SES, AWS RDS, MySQL)

Apr 2020

- Designed the Front-End using React and CSS
- Implemented the Back-End using Spring boot and Hibernate
- Designed Email Notification using the technology of AWS SES
- Maintain the database using AWS RDS and update the data using MySQL

JobSearch (AWS EC2, Java Servlet, JavaScript, MySQL, AWS RDS, MonkeyLearn)

Feb 2020

- Performed front-end web UI design and implemented using HTML, CSS, and JavaScript
- Handled HTTP request and response with RESTful API implemented by Java Servlets
- Improved personalized position recommendation based on search history and favorite records
- Used MySQL database on Amazon RDS to store position fetched from GitHub API
- Deployed on AWS EC2 using Docker and set up security groups to only show HTTP server to public
- Extracted keywords of job positions using MoneyLearn API to improve recommendation results

NittanyPath (Flask, Python, SQLite, HTML, CSS, PyCharm IDE)

Sep 2019

- Chose SQLite as a relational database management system
- Designed the front-end using Flask and Bootstrap
- Created tables in the database using the SQLAlchemy package in Flask
- Implemented the Backend using Python and Flask

Newsgrroups Classification (Python, ML, DL, Keras, TensorFlow, Panda, Scikit-Learn)

Mar 2019

- Used GloVe wording embedding to pre-process text file
- Developed a CNN and RNN with different layers to classify text information using Python Deep Learning Library Keras and TensorFlow