XUE ZOU

COMPUTER SCIENCE & MATHEMATICS MAJOR

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EDUCATION

Vanderbilt University   Nashville, TN (Aug 23, 2017–May 12, 2021)
- Bachelor of Science in Computer Science & Mathematics
- GPA: 4.0/4.0
- Activities: VandyHacks Dev Team, VandyFOSS(Free and open source) Initiator, Code Ignite, Concert Choir

SKILLS & COURSEWORK

Technical Skills C++, Python, Javascript, Web Development(React, Express etc.), MongoDB, D3.js, PyTorch
Coursework   Data Structure and Software Design, Intermediate Software Design, Web-based Architecture,
Algorithms, Introduction to Visualization, Udacity Secure & Private AI Scholarship

WORK EXPERIENCE

Pingan Technology

Natural Language Processing Algorithm Engineer Intern   Shenzhen, China (Summer 2019)
- Taught myself PyTorch and implemented model BERT on downstream tasks such as text classifier
- Designed judicial reading comprehension model trained on around 30,000 Chinese judicial documents
- Discovered a new approach based on feature extraction to fine-tune the model; boosted performance by 3%
- Placed currently the 1st among 160+ teams on the leaderboard of *Chinese AI Law Challenge*

Institute for Software Integrated Systems

VeriVital Lab Software Engineer Intern   Nashville, TN (Summer 2018)
- Built auto-scribing program that integrates GCP, AWS and IBM Watson speech-to-text services to optimize medical data entry into the electronic health records system
- Designed interface using HTML5, CSS3, JavaScript and Web MediaDevices APIs to improve user experience

Vanderbilt University

Teaching Assistant for *Data Structure and Software Design*   Nashville, TN (Aug 2018–Jan 2019, Aug 2019–)
- Guided and tutored students in weekly 4+ office hours; consistently received positive evaluations from others
- Evaluated over 100+ students projects and assignments with detailed and thoughtful feedbacks

PROJECTS

Solitaire Game Web App   (Aug–Dec 2018)
- Developed a web-based Solitaire single-page app using *MongoDB* & *Mongoose* for data persistence, popular js framework such as *React* for client side, *Redis* for caching, *Express* for server side
- Built based on *REST*ful APIs; Explored the possibilities of using *GraphQL* over *REST*
- Won the *most attractive application* voted by other students

Exploring UFO Sightings   (Nov–Dec 2018)
- Designed and implemented visualization and interaction of over 80,000 data items across attributes such as time, geo, shape and duration, using *d3.js* library
- Conducted analysis of trend and patterns; hypothesized that most UFO reported might be unusual military planes by visually matching major US air force bases with the most reported areas

Wechat Birthday & **Wechat Praising Chatbot**   (June 2019)
- Built a python app that could auto-send messages to wechat friends or groups on pre-defined date and time
- Developed a wechat chatbot that always gives positive compliment in reply to messages; built upon data crawled from praising groups, where people only compliment each other
- Increased the efficiency of user chat experience by 20% from survey

OTHER EXPERIENCE & INTERESTS

Language English, Japanese(Elementary), Traditional/Simplified Chinese
Interests Piano, Literature, Travel, Cooking, Graphic Design & Video Editing