

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), Code Ignite, Concert Choir

SKILLS & COURSEWORK

Technical Skills C++, Python, Javascript, Web Development(React, Express etc.), MongoDB, D3.js, PyTorch

Coursework Web-based Architecture, Data Structure and Software Design, Intermediate Software Design, Introduction to Visualization, Algorithms, Cyber Security, Foundation of Machine Learning, 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)

- 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

Vaken – Hacker Application Web App

(June 2019–Current)

- Collaborated on building a web app using TypeScript and query language GraphQL via Apollo for APIs
- Developed front-end components and back-end resolver for sponsor's application and integrated helpful tools such as graphql-code-generator, for VandyHacks VI, TN's largest student hackathon

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 RESTful APIs; Redesigned the app using GraphQL over REST
- Won the *most attractive application* voted by other students

Exploring UFO Sightings Data

(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

OTHER EXPERIENCE & INTERESTS

Language English, Japanese(Intermediate), Traditional/Simplified Chinese

Interests Piano Performance, Literature, Travel, Cooking, Graphic Design & Video Editing