Zhi Zhang

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EDUCATION

New York University, New York, NY *Dec 2020*

Master of Science Computer Science

University of Missouri-Columbia, Columbia, MO *Jul 2019*

Bachelor of Science Computer Science

- Honors/Awards: Cum Laude and Honors Scholar

Taiyuan University of Technology, Shanxi, China *Jul 2018*

Bachelor of Engineer Software Engineering (Duel Degree Program)

TECHNICAL SKILLS

- **Programming Language :** Python, Java, C/C++, JavaScript, HTML, CSS, PHP, SQL.
- **Database** MySQL, Oracle, MongoDB, Sqlite3.
- **Toolkits and Frameworks :** React, Material-UI, Node.js, cytoscape.js, AWS, Drupal8, Vaadin7, Git, Docker.

EXPERIENCE

Stowers Institute for Medical Research *May 2019 - Aug 2019*

Full Stack Developer , Computational Biology Group *Kansas City, MO*

- Developed a full-stack web app in React, node.js and Mongodb for helping labs organize its experiments data and Samples.
- Designed and wrote front-end UI in Material-Ui to promote user experience.
- Built the back-end server in node.js to operate server file and communicate with R script for RNA-seq data analysis.
- Collaborated with a team of three to build a Webportals for collecting bioinformatics tools.

University of Missouri - MU Operations *Jan 2017 - Jan 2018*

Software Developer , System Development Center *Columbia, MO*

- Took part in building, testing and maintaining campus-wide web applications with Vaadin7 Framework, namely four systems including MU contract management, staff salary management, printing and mailing, and temporary staff management.
- Participated in designing the logical structure of software and the structure of database.
- Applied the stored procedure and function for connecting Oracle database to support CRUD operations.

University of Missouri - MU Operations *Dec 2016 - Dec 2017*

Project Manager , Drupal Web Development Group *Columbia, MO*

- Managed a team of 7 members to design and create 8 websites (Human Resource Services, Police Department, etc.) for 12 university departments with Drupal 8, reducing the workload of MU Operation's IT department by 30%.
- Implemented agile development to distribute tasks and monitor work progress, participated in writing project documentation, testing system, maintaining and updating website.
- Coordinate with technical staff, department staff (customers) and team members to met project timelines and budget.

PROJECT

Conversational Agent for Recommender System *Feb 2019 - Jun 2019*

- Integrated chatbot with recommender systems on a Neuroscience research portal website named CyNeuro Portal in Laravel Framework and Google Dialogflow, Which could reduced the time for users to find the resources they need.
- Built restful api to fetch the related articles in JSON format for publication recommender system by using node.js.
- Collaborated with a team of five to implement system in AWS and MongoDB Cloud.

G2S (Genome to Structure) Web Service *Dec 2016 - Apr 2017*

- Took part in building RESTful Web Service in Java Spring boot to analyze the 3D structure of protein by employing BLAST algorithm.
- Applied Swagger Tools to generate Spring Boot REST API client libraries for web service users.