

Haotian Zhu . Jarvis Consulting

I am Haotian Zhu, who graduated from the University of Alberta in 2020. I am a versatile software application developer with a passion for learning and delivering on applications with a high-quality standard. I was working on campus as a full-stack developer. My primary responsibility was to develop a restful back-end API and do integrate tests with the front-end. I currently work on Jarvis as a software developer. I have experience using Django, Nodejs, and SpringBoot for the back-end; meanwhile, I am familiar with Reactjs, MongoDB and PostgreSQL. I am a team-oriented person, and I am also a problem solver. I enjoy coding challenges and learning algorithms and data structures. Currently, I am looking for a great team to provide my skills and learn new tech skills.

Skills

Proficient: Java, Python, JavaScript, Django, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git

Competent: HTML5, CSS, React, Postman, Docker, CI/CD

Familiar: Azure Cloud/Heroku Cloud, Express.js, Angular7, MongoDB, JQuery

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_HaotianZhu

Cluster Monitor [GitHub]: Coded bash scripts to generate PSQL database quickly via docker commands. Such PSQL database deployed into Cloud will record hardware specifications of multiple Linux servers/nodes. Developed SQL script to automatically insert Linux server hardware information into the database. It allows the Jarvis Linux Cluster Administration team to track and manage a Linux cluster of 10 nodes/server.

Core Java Apps [GitHub]:

- **Twitter App:** Developed an MVC twitter project using the java spring framework. It allows users to create, fetch, and delete Tweets by Twitter API
- **JDBC App:** Developed a PSQL database program and write DAO to fetch/update/delete entries in the database.
- **Grep App:** Implemented a grep program in Java. The grep program allows users to research and find all text patterns recursively within a given folder and write all match text lines in an output text file.

Springboot App [GitHub]: Developed an online trading simulation platform using SpringBoot and microservice architecture. Implemented Restful APIs to allow the customers to buy and sell stocks. Coded API to remotely call IEXCloud server to update stock market information. Programmed docker files to dockerize and deploy the back-end application and database separately.

Highlighted Projects

OWL Event Insurance Website: Lead with a 6-person team responsible for full-stack development of a responsive website for a startup event insurance company. Managed a team responsible for front-end delivery using React, including buildout of layout and colour schema. Engaged the SpringBoot back-end development team to integrate all front-end deliverables effectively. Produced a mobile-friendly website featuring social media authentication and online payment function.

Online Learning Web Application [GitHub]: Collaborated with a team to develop an online instructional tool for use by instructors across the University. Initiated and lead the complex migration of the project from Python 2.7 to Python 3.0 to enable the integration of new features. Designed and coded the Restful API in Django Restful Framework and integrated the React front-end project.

Independent Website Development [GitHub]: Developed a single page application using Nodejs, Mongoose and Angular7. Deepened technical skills through the independent development of an anime forum and the site's deployment on Azure Cloud. Implemented the dynamic loading contents when customers scroll the page down. Demonstrated willingness to learn and gain proficiency with web technologies.

Professional Experiences

Software Developer, Jarvis (2020-present): Worked in an agile environment using scrums and implemented different projects and tickets.

Software Developer, University of Alberta (2018-2019): Worked in an agile environment and collaborated with teams responsible for priorities, including API design, testing/debugging, and development.

Tutor, University of Alberta (2018): tutored advanced database course. Concepts include writing and optimizing SQL queries, B and B+ tree structures, and different database indexes, locks, etc.

Education

University university (2015-2020), Bachelor of Computer Science, Department of Computing Science - Dean's List (2015) - GPA: 3.4/4.0 - Top 10 in University of Alberta Programming Contest

Miscellaneous

- 2nd Dota2 part in University of Alberta eSports club competition
- billiard player
- LeetCode problem-solving and posting solutions