Jiajun Liu

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EDUCATION

University of Melbourne   *2020.6-2021.12*
Major: Information Technology(Master)

Monash University   *2019.9-2021.12*
Major: Computer Science(Bachelor)

SUMMARY

As a software developer with 1.5 years of experience, I am skilled in programming languages such as Java, Python, and C#, with a strong foundation in databases, web development, and mobile applications. Experienced in Agile and Scrum methodologies, I excel in delivering high-quality software solutions on time and within budget. Seeking opportunities in software developer.

SKILLS

- Language: C++, Java, JavaScript, TypeScript, Python, C#
- Front-end: HTML5, CSS, React, Vue3, NodeJS
- Back-end: MySQL, SQLite, PostgreSQL, Tornado, SpringBoot
- Technologies:RabbitMQ, Tomcat, Redis, Nginx, Git, Docker
- AI Development: Pytorch, Keras, Scikit-learn, Tensorflow, Anaconda, Pandas

PROJECTS

Covid-19 analysis system   *2021.6 - 2021.12*
Skill Sets: Python, CouchDB, Git, React, Javascript, Postman, Docker, Pandas
Descriptions: On a project entailing the creation of a Covid-19 analysis platform utilizing data sourced from Twitter and Socio-Economic Indexes for Areas, which aimed to visually depict individuals across various areas and income brackets during the pandemic to provide insights on enhancing recognition and support for diverse socio-economic backgrounds amid the crisis.
Achievements:

- Gathering data from various sources, cleaning and transforming it by **Pandas**, and then creating geographical-based visuals to represent the impact of the pandemic.
- Sanitizing sensitive data, embedded the word in vector, employing a **node2vec** model to predict word similarity, and identifying relationships between words and Covid-19. By extracting insights and demonstrating linguistic connections and trends in pandemic discussion (**pytorch**, **jupyterbook**, **colab**)
- Successfully built the website frontend using **React.js** and integrated the **Escharts** library to display the graph.
- In order to efficiently handle the large volume of data fetched from Twitter (over **3 million** data points), we utilized **MapReduce** functionality in **CouchDB**.
- Leveraging **Docker** technology, we containerized our application and utilized **GitHub's** deployment functionality to seamlessly deploy updates to our server environment.

WORK EXPERIENCE

Huawei (Full-Time| Software Engineer, China)   *2022.12-Recent*
Skill Sets: DataBase, Java, SpringBoot, JavaScript, RabbitMQ, k8s
Achievements:

- Be in a team to complete the precision test platform using the **SpringBoot** framework.
- Utilize **RabbitMQ** to manage the message consumption system that collects various test content from different code repositories.
- Proficient in database management using **SQL**, with a focus on decoupling complex queries to enhance performance
- Develop a predictive model using Neural Networks (specifically Deep Neural Networks - DNN) to automatically generate test scripts for testers.
- Implementing a **full test automation pipeline** and leveraging automated testing platforms, the workload of testers can be significantly reduced by **50%** (more than 4hrs per day per tester).
- Develop the front-end website using **Vue3** and **JavaScript** for an interactive user interface.
- Deploying the in **Kubernetes** improves scalability and reliability, making it easier to manage during the pandemic analysis.