Kyle Meng

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Skills

Programming Languages: Java, Python, C/C++, C#, JavaScript, TypeScript, HTML5, CSS3, SQL
Frameworks & Technologies: Spring Boot, Hadoop, ElasticSearch, Selenium, RESTAPI, Linux, React, Vue.js
Tools & Platforms: Maven, Docker, Putty, XShell, VMware, Vim, Git, JIRA, LaTeX
Databases & Caching: MySQL, Hive, HBase(NoSQL), Redis

Experience

Software Engineer Intern   *Chengdu, China*
1000Phone Technology Company   *July 2020 – Sep 2020*

- Designed interactive web application prototypes using **Axure RP**, collaborating closely with project managers in an **Agile Scrum** environment
- Developed a Python-based weather forecasting web application leveraging **Django Web Framework** to provide accurate, real-time weather updates
- Enhanced the forecasting module's UI **by extending the display range from 3 to 7 days**, improving user experience
- Implemented dynamic weather icons linked to temperature values, enhancing visual clarity and quick recognition of conditions

Java Technical Intern   *Chengdu, China*
Southwest Petroleum University   *July 2019 – Sep 2019*

- Acquired expertise in **Java Servlets, Spring Framework, and Agile methodologies**, applying these skills to team-based development projects
- Engineered a video game shopping website using the SSM framework, seamlessly integrating front-end and back-end components for user profile management

Projects

Distributed Campus Network Search Engine   *Java, Hadoop, MapReduce*

- Engineered an automated web crawler using **Python & Selenium**, boosting data collection efficiency by 20%
- Configured a **distributed Linux server environment on VMware**, enhancing processing speed
- Optimized data indexing and retrieval by leveraging **Hadoop's MapReduce** framework, improving processing speed by **30%**.
- Doubled search efficiency by storing **TF-IDF index tables** in **HBase**, reducing query time

Real-time Online Video Chat   *Python, React, WebRTC*

- Developed a scalable, real-time **WebRTC-based** video chat application for peer-to-peer communication
- Built back-end services with **Node.js & Express**, managing user connections and session persistence
- Designed an intuitive **React-based** front-end, ensuring a responsive and engaging user experience

iThink Creative Investment Platform   *Java, Springboot, JavaScript*

- Architected a multi-platform social investment platform for idea sharing and trading, integrating a **web app, Android app, and WeChat Mini-Program** with a unified **MySQL** database
- Implemented **Spring Boot-powered** back-end services, ensuring high performance and scalability
- Built a dynamic front-end using **JavaScript** and **LayUI**, improving usability and visual appeal

Education

University of Ottawa   *Sep. 2022 – May. 2024*
Master of Electrical and Computer Engineering   GPA: 9.44/10.0   *Ottawa, ON*

- **Relevant Courses:** Cloud Infrastructure and Technologies, Software Defined Network and Cloud

Southwest Petroleum University   *Sep. 2017 – Jun. 2021*
Bachelor of Software Engineering   GPA: 3.49/4.0   *Chengdu, China*

- Excellent Graduation Design Award & 4 Scholarships for Excellent Student
- **Relevant Courses:** Big Data Processing, Software Project Management, Operating System