Cedar Chen

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SUMMARY

Three years of software development work experience, proficient in **C++** and **Python** programming languages, as well as data operations with **MySQL**. Especially, my experience is in developing distributed storage systems in private clouding platforms, SDKs in big data platforms, compilers, and industrial (desktop) software.

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, SQL, Redis, Shell
Developer Tools: VS Code, Visual Studio, VIM
Technologies/Frameworks: Linux, Git, Django, Qt, FLask, Scarpy, CEPH, Dokcer, Kubernetes

PROFESSIONAL EXPERIENCE

Runjian
2023.02 – Present
Software Engineer — *Beijing, China*

- **EBConverter** As a software development engineer in the DEA software team, using **C++** and **Qt** to complete tasks which responsible for implementing drawing(XML) conversion functions to ensure that data is accurately transmitted between different systems.

JD.com
2021.10 – 2022.08
Software Engineer — *Beijing, China*

- **SQL Parser** SQL Parser is a SDK for Generate **AST** by parsing the **SQL** input by the user through Lexer and parser, and then perform **code generation** to generate the corresponding secure computing **Python** API code (**ANTLR**, **Pyspark**), and the parsing ability is improved by 50%.
- **Jupyter** developed custom user login, code detection, custom kernel, and other functions, which enable user to login platform and use jupyter kernel delopled by our team(**Jupyter**, **Python**, **Kubernetes**, **Docker**).
- **File Service** File Service is a microservice, my role is to developed user data storage, query, and other related functions (**Flask**, **Pandas**) whcih supports access to file list of folders from the **file system**, **HDFS**, and **Amazon S3** interfaces, creating folders, obtaining CSV and ORC format headers, obtaining metadatas. An average increase of 30% in final response speed.

Institute of Information Engineering, Chinese Academy of Sciences
2020.07 – 2021.10
Software Engineer — *Beijing, China*

- **Security Authorization Management System** Optimized the user interface and implemented the backend functions (**C++**, **QT**, **socket**) of the security and security authorization management system of the virtualization platform, reducing the time to manage access by 40% through automation.
- **Distributed Storage System** My role is to designed and implemented a distributed storage system, mainly implementing user management, uploading and downloading files, file collection and sharing, user history viewing, and other functions (**CEPH**, **Linux**, **Django**, **Boto3**, **HTML**, **CSS**, **JavaScript**, **Python**).
- **Storage Cluster Monitoring Module** Storage cluster monitoring module development and document online browsing function implementation (**Flask**, **JavaScript**, **Python**).

Yuexin Technology
2019.06 – 2019.12
Software Engineer Intern — *Beijing, China*

- Data warehouse extraction, scheduling, processing, cleaning, and analysis of hundreds of millions of data levels.
- Use **ETL** tools to write scripts and **SQL** to process data (**Kettle**, **JavaScript**).
- Develop data crawlers for enterprise industrial and commercial data, which make more that 200Million lines data became updated. (**Python**, **Scrapy**, **XPath**).

Open Source Projects and Works

University Information Retrieval System
2019.12 – present

- Built and deployed a web system .
- This system regularly captures data of 1500 universities from other websites and displays the data on the page (scrapy, HTML, CSS, JavaScript).
- User can register, log on, activate, view history, and collect satisfactory institutions (Redis, Celery).
- Retrieve university information (MySQL, Amap API, Whoosh, Haystack) through keywords, longitude, latitude, and ranking.

Chinese Language Sssessment System | Django, JavaScript, Xunfei API
2020.07 – 2020.10

- Built a web system that can input English-generated corresponding audio files and play online, and display the corresponding audio map.
- Through this system, Chinese can be entered online and scores can be given in real-time.

EDUCATION

Guangdong Baiyun University
2016.09 – 2020.07
Bachelor's in Information Management and Information System — *Guangzhou, China*

CERTIFICATIONS

- Machine Learning - Coursera