

CEDAR CHEN

Beijing, China

+1-9048785491 cedarchen7@gmail.com cedarchen tallsong

SUMMARY

Software Engineer with 5 years of experience in architecting and delivering robust software solutions. Adept at utilizing **C++** and **Python** to build efficient systems and perform data operations in **MySQL**. Skilled in creating **distributed storage solutions**, improving SDKs for big data platforms, and streamlining compilers and industrial software. Possess extensive expertise in Linux multi-threading (4 years) and data structure algorithms (5 years)

TECHNICAL SKILLS

Programming Languages: Python, C, C++, JavaScript, Shell

Distributed System: Microservices architecture, Apache Spark

Tools & Technologies: MySQL, Redis, Git, Docker, Kubernetes, Linux, Django, Qt, Flask, Scrapy, CEPH

A/B Testing Platforms: Familiarity with large-scale experimentation frameworks, eg: Ansible

PROFESSIONAL EXPERIENCE

Runjian

Software Engineer

2023.02 – Present

Beijing, China

- EBConverter**

- * Spearheaded the development of EBConverter, a drawing conversion tool built using C++ and Qt, ensuring seamless XML data transformations while maintaining system scalability
- * Boosted data accuracy by implementing rigorous testing protocols for conversion processes

JD.com

Software Engineer

2021.10 – 2022.08

Beijing, China

- SQL Parser** Enhanced and streamlined a distributed SQL Parser, a SQL parsing system in AI system for generating **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**), resulting in a 50% improvement in parsing capabilities
- Jupyter** Contributed to a Jupyter-based data platform, focusing on scalability and user customization, such as developing custom user login, code detection, kernel customization, allowing users to login platform and use jupyter kernel (**Jupyter**, **Python**, **Kubernetes**, **Docker**)
- File Service** Architected a Microservice-based file storage solution, enabling data storage, querying, and folder synchronization across HDFS, S3, and local systems, reducing response time by 30% (**Flask**, **Pandas**)

Institute of Information Engineering, Chinese Academy of Sciences

Software Engineer

2020.07 – 2021.10

Beijing, China

- Security Authorization Management System** Modernized a security authorization management system by redesigning backend functionality using C++, QT, and socket programming, reducing access management time by 40%
- Distributed Storage System** Upgraded backend systems to support large-scale data operations, contributing to improved system performance and customer satisfaction, such as 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** Created a monitoring module for storage clusters and developed document browsing functionality, enhancing operational visibility and efficiency (**Flask**, **JavaScript**)

Yuexin Technology

Software Engineer Intern

2019.06 – 2019.12

Beijing, China

- Automated data extraction and transformation for industrial datasets, processing hundreds of millions of records using **ETL** tools and **SQL** scripting (**Kettle**, **JavaScript**)
- Use **ETL** tools to write scripts and **SQL** to process data (**Kettle**, **JavaScript**)
- Developing data crawlers for enterprise industrial and commercial data, which updated more than 200 Million lines data became updated. (**Python**, **Scrapy**, **XPath**)

PERSONAL PROJECTS

University Information Retrieval System

2019.12 – present

- Deployed a web application to aggregate and display data from 1,500 universities, enabling keyword-based searches for institution details (**Scrapy**, **Redis**, **MySQL**, **Amap API**)
- Integrated user account functionalities, including login, history tracking, data collection, retrieve university information (**MySQL**, **Amap API**, **Whoosh**, **Haystack**) through keywords, longitude, latitude, and ranking features

Chinese Language Evaluation System

2020.07 – 2020.10

- Engineered a web-based system for real-time evaluation of Chinese language input, with audio playback and score display capabilities (**Django**, **JavaScript**, **Xunfei API**)

EDUCATION

Guangdong Baiyun University

Bachelor's in Information Management and Information System

2016.09 – 2020.07

Guangzhou, China

CERTIFICATIONS

- Machine Learning Certificate- Coursera
- Winner of the Third Prize Award in the Preliminary Round of the 2017 “FLTRP Cup” English Writing Contest