Hu Ziming

Tel: (+86)1861-832-8360
Mail: hzmangel@gmail.com
Blog: http://hzmangel.github.io/

Summary

Join Derivatives China as quantitative trading strategy engineer. Focusing on architect and develop quantitative trading system for cryptocurrencies.

Was working in Favorite Medium as principal software engineer. Main tasks are creating web services with appropriate software stack and taking leading engineering work for long-running client projects. Before joining Favorite Medium, was working on IBM HPC scheduler software LoadLeveler, which have 4 years experience on Linux development with C++.

Having been using and maintaining Linux system for more than 10 years; Develop with Python, Golang, C/C++, Ruby, Nodejs, and skillful in Unix utilities such as sed. Experienced on building high scalability web services with MongoDB, Redis and Docker, experienced on data grabbing and analysis with pandas. Great studying ability on new technologies.

Patent

Published patent ***Scheduling Jobs In a Cluster*** while working at IBM, publication number is **US 2010/0223618 A1**

Education

Online Education

- Mining Massive Datasets (Coursera), SoA with **Distinction**.

Beijing University of Posts and Telecommunications Sep 2005 - Apr 2008
M.S., Signal and Information Processing

Beijing University of Posts and Telecommunications Sep 2001 - Jun 2005
B.S., Information Engineering

Current Occupation

Derivatives China Feb 2018 - Present
Trading Strategy Engineer

- Architect and implement quantitative trading platform
- Implement quantitative trading strategy for cryptocurrencies
- Design data structure and flow between various components
- Architect and implement internal data publish service

Past Projects and Experience

Cryptocurrencies Trading Platform Feb 2018 - Now
Architect and Developer *Derivatives*

- Design structure and data flow of high performance cryptocurrencies trading platform.
- Implement centralized order manager system.

- Build trading data services for internal components.
- Implement trading strategy for cryptocurrencies.

ZPPR Jul 2015 - Jan 2018
Architect and Developer *Favorite Medium*

ZPPR is a platform for real-time media creation and distribution. It collects images and videos from users, converts them into various versions, then manages them by brands, projects and feeds. With the system, user can manage and share the medias easily with other user, team or group. The system is built with multiple AWS services, and implemented in Python 3.

- Architect and leader developer for media processing workflow.
- Build system with AWS S3/Lambda/SQS/SNS/EC2/RDS/ElasticSearch/ELB/ElasticTranscode.
- Help to build API server and connect with media processing workflow.
- Build CI pipeline with Jenkins.
- Learning Cloud Formation and Code Pipeline to build the release process.

Starcount Feb 2013 - July 2016
Architect and Developer *Favorite Medium*

Starcount (`http://www.starcount.com/`) is focusing on calculating popularity for stars over multiple social networks. By tracing the score and activities on the website, user can get better known of different stars. Project contains main site, mobile app, CMS and data collector.

- Architect and leader developer for backend part (data collecting and processing, CMS).
- Implement and maintain frondend code.
- Design and implement CMS with **Ruby on Rails** for account info management.
- Replace third part calculation and query service with **ElasticSearch** and **Python** scripts, help customer to reduce cost.
- Design **MongoDB** schemas and indexes to optimize data fetching, reduce query time up to **50%**.
- Refactor web crawlers from Ruby to **Golang**, which increases the performance and reduces node used from **30** to **6**.
- Introduce **Redis** for long cycle tasks, which brings better user experience in CMS.

LoadLeveler Apr 2008 - Apr 2012
Staff Software Developer (From Jun 2011) *IBM*

Being responsible for development and design for LoadLeveler product. LoadLeveler is a scheduler for high performance computation. The application is written by C++ and running on Linux/AIX, it provides ability to manage and schedule tasks in big clusters, such as Blue Gene. I have accomplished those features during my work:

- Configuration enhancement: convert file based configuration to database, to make it available in big cluster.
- IPv6 support: replace system calls to IPv6 compatible, and update internal data structure to support IPv6 data.
- Task migration: enable task migration between different nodes or sub-clusters on Linux platform by cgroup.
- Modify resource usage without stopping task: provides function to change resource needed by task on-the-fly to improve the cluster resource usage.

Besides development, I was also respond to system administrator for development cluster environment.