

# HU ZIMING

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## SUMMARY

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Join *Dumplings Tech* as quantitative trading strategy engineer, focusing on architect and develop quantitative trading system for cryptocurrencies.

Was working in Derivatives China as engineer to build trading system.

Before joining Derivatives China, 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.

And was working on IBM HPC scheduler software LoadLeveler before working with Favorite Medium, which have 4 years experience on Linux development with C++.

Having been using and maintaining Linux system for more than 10 years; Develop with Golang, Rust, Python, 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

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Published patent *SCHEDULING JOBS IN A CLUSTER* while working at IBM, publication number is US 2010/0223618 A1

## CURRENT OCCUPATION

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Dumplings Tech <i>Trading Strategy Engineer</i>	Nov 2020 - Present
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- Architect and implement quantitative trading platform
- Implement quantitative trading strategy for cryptocurrencies
- Design data structure and flow between various components
- Architect and implement internal datahub service

## PAST PROJECTS AND EXPERIENCE

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Cryptocurrencies Trading Platform <i>Architect and Developer</i>	Nov 2020 - Now <i>Dumplings Tech</i>
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- Architect and implement position manager system for all trading accounts
- Rewrite market data service for better performance
- Architect and implement trading capture system
- Architect datahub for internal usage

Cryptocurrencies Trading Platform <i>Architect and Developer</i>	Feb 2018 - Oct 2020 <i>Derivatives</i>
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- 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.

Starcount  
Architect and Developer

Feb 2013 - July 2018  
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 frontend 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  
Staff Software Developer (From Jun 2011)

Apr 2008 - Apr 2012  
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.

## EDUCATION

### Online Education

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

Beijing University of Posts and Telecommunications  
M.S., Signal and Information Processing

Sep 2005 - Apr 2008

Beijing University of Posts and Telecommunications  
B.S., Information Engineering

Sep 2001 - Jun 2005