

Zhaolong Zhu

- GitHub: <https://github.com/zzl0>
- Email: zhuzhaolong0@gmail.com

Work

Amazon, Toronto (2017.07 - present) Software Development Engineer

- Led several Ads Attribution projects: building a new Conversion Ingestion system (Spark app), adding a new dimension in Attribution systems for Amazon Fresh program.
- Led Transportation Options project to improve FBA seller's shipping experience.
- Built a rule interpreter for shipping services, so we can easily change the rules data and share them between front-end and back-end.
- Proposed and implemented an idea to optimize our DynamoDB design, which reduced the number of DDB tables from 6 to 1 and simplified access patterns.
- Built AthenaCLI to simplify the procedure of running Athena ad-hoc queries.
- Helped migrate FBA Oracle database to AWS DynamoDB. The switch to managed service reduced database admin overhead by 70%.

Douban, Beijing (2013.07 - 2016.11) Core System Engineer

- Designed and implemented a time series database: Kenshin (and also presented it in QCon Beijing 2016), which reduced the IOPS by 97.5% with a little increase in query latency.
- Core contributor to a distributed KV system: GoBeansDB and GoBeansProxy, reduced the memory usage by 46% and maintainance overhead by 50%.
- Core contributor to a BigData processing framework DPark and the computing cluster.
- Implemented an ETL pipeline and a mobile app analytical platform from scratch.

Open Source

- AthenaCLI: a CLI tool for AWS Athena service that can do auto-completion and syntax highlighting.

Technical Skills

- Programming Languages: Python, C, Go, Java, Scala, Lisp.
- Large-scale distributed storage and data processing systems.
- Excellent quick learning and problem-solving ability under time constraints.

Education

- Jilin University, M.Eng. in Computer Science (Outstanding Graduate)
- Jilin University, B.Eng. in Computer Science (Outstanding Graduate)