ZHONG YU

(408)375-8481 https://zhong-yu.org zhong.j.yu@gmail.com

- Extensive knowledge in Java ecosystem, database, concurrency, distributed system, internet technologies.
- o Strong analytic and problem solving skills, detail-oriented, practical-minded. Curious and creative.
- Honor-bound, take pride and ownership in my work. Aim to impress, always deliver. Enjoy teamwork.

Experience

Percent Senior Software Engineer

New York, NY

2021 - Present

Loan Risk Analysis

- Added multitenancy support to legacy application with compartmentalization of data and access.
- Improved financial data extraction and transformation from excel files.
- Modernized acquired IP, improved its architecture, and brought it to production quality.

Alibaba Group Staff Software Engineer

Hangzhou, China

2017 - 2018

StreamCompute Platform for AliCloud

- Worked on Apache Flink's SQL Query Processing module to add features and fix issues:
- Analyzed and enforced SQL standard-compliance. Implemented full support for Decimal type.
- Introduced new strategies in query optimizer that greatly improved TPC benchmarks.
- Established a theoretical framework to transform any join-group-aggregate queries for optimization.

Atypon Systems Senior Software Engineer

Santa Clara, CA

2001 - 2008

Online Publishing Platform

- Created a backend workflow system, with a modeling language, compiler, engine, and admin interface.
- Created an authoring system for clients to edit, version, audit, stage, and publish web pages.
- Created infrastructure frameworks, including ORM, caching, distributed consensus.
- Maintained and improved website performance, scalability, and availability for growing demands.
- Integrated with client systems through numerous proprietary and standard protocols.
- o Implemented various business features, in particular identity management, access control, e-commerce.
- Worked directly with clients to resolve issues, gather requirements, and write specifications.

Fermi National Accelerator Lab Researcher

Batavia, IL

1998 - 2000

DØ Collider Detector

- Implemented frameworks and algorithms in C++ for real-time detector event streaming and analysis.
- Created Labview applications for mapping magnetic field in DØ detector solenoid.
- Wrote Delphi applications to motorize lab machines, to acquire and analyze experimental data.

Open Source

- o rekex.org PEG parser generator for Java 17 grammar as algebraic datatypes.
- o bayou.io Async HTTP server/client high performance in functional style, full-featured.
- subpage ReactJS router simple API, flexible navigation models.

Education

• M.S. in Computer Science	2001	Loyola University Chicago	Chicago, IL
• M.S. in Physics	2000	Northwestern University	Evanston, IL
• B.S. in Physics	1997	Peking University	Beijing, China