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. • 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 New York, NY 2021 - 2022 Senior Software Engineer **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, imporved its architecture, and brought it to production quality. Hangzhou, China 2017 - 2018 Alibaba Group Staff Software Engineer 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. Santa Clara, CA 2001 - 2008 **Atypon Systems** Senior Software Engineer **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. • Implemented various business features, in particular identity management, access control, e-commerce. • Worked directly with clients to resolve issues, gather requirements, and write specifications. Batavia, IL 1998 - 2000 Fermi National Accelerator Lab Researcher **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** • rekex.org - PEG parser generator for Java 17 - grammar as algebraic datatypes. bayou.io - Async HTTP server/client - high performance in functional style, full-featured. o

• **subpage** - ReactJS router - simple API, flexible navigation models.

Education

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