

Tom Alison

Software Engineer, Facebook

Jul 2010 — Present · www.facebook.com

Develop technology and products designed to increase user growth and engagement.

Co-founder & CTO, Zenbe Inc.

Sep 2006 — Jun 2010 · www.zenbe.com

Conceived and delivered web-based email and group messaging products for individuals and small teams, as well as Zenbe Lists, one of the first 300 iPhone apps. Hired and managed engineering staff, developed site architecture and monitoring, setup customer support and marketing tools

Zenbe was partially acquired by Facebook in June, 2010.

Senior Developer, Two Sigma Investments, LLC

Dec 2005 — Sep 2006 · www.twosigma.com

Incorporated new sources of market data into Two Sigma's custom high frequency trade execution system. Developed additional reporting capabilities in the measurement and analysis platform.

Worked with quantitative analysts to develop a new order placement strategy for the FX markets.

Senior Developer, Pragma Financial Systems

Jul 2005 — Dec 2005 · www.pragmatrading.com

Implemented adaptive trade execution algorithms in Java for Pragma TradeEngine®, an algorithmic trading platform used by major hedge funds and sell side broker-dealers.

Designed and tested new trading algorithms, trade impact models, and limit order placement strategies with the Director of Research using R and Java.

Senior Systems Developer, Ameritrade

Sep 2002 — Jul 2005 · www.tdameritrade.com

Led the technical effort to reduce Ameritrade's market data licensing fees by millions of dollars by creating APIs to Datek's real-time, direct-feed market data ticker plant that

Contact

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Expertise

Technical Leadership
User Experience
Concurrency
Distributed Systems
Network Programming
System Monitoring

Languages

Java
PHP
Ruby
Python
Javascript
HTML/CSS
Bash
R

Frameworks

Apache Mina
Rails, Sinatra, Rack
Prototype
Hibernate

Software & Platforms

MySQL
Solr, Lucene
Memcached
Postfix
SpamAssassin
Hive
Tibco
Nagios, Munin
Git, SVN
Photoshop
Linux
Amazon Web Services

Protocols & APIs

TCP/IP, UDP, Multicast, HTTP
Email Protocols
OAuth
Direct Exchange Feeds
Wombat
GData
Facebook
Twitter

mimicked TAQ. The APIs were used by all of Ameritrade's mission critical applications including the retail trading site, order routing system, customer alerts, and IVR.

Developed a common application framework for market data handling and publishing services, including introduction of JDK5 concurrency primitives, pluggable event-driven I/O libraries, consistent JMX management interfaces and a standardized state-replication protocol for redundancy and fail-over.

Increased peak message handling capacity from forty thousand to ninety thousand messages-per-second via garbage collection optimizations and concurrency improvements. Participated in stress tests with SIAC to ensure system resilience under peak projected data volumes for the options markets.

Lead Web Developer, Datek Online

Sep 1999 — Aug 2002

Designed and developed a set of web-based interfaces for highly active traders that featured self-updating account balances, keyboard driven order management, and a natural language equity order parser.

Conceived and implemented "Datek Direct" in response to the need to give customers more control over order routing. Wrote a Java-to-Javascript bridge to enable one-click order entry and routing capabilities from an embedded real-time market data applet. Praised by TheStreet.com as "elegantly simple."

Designed and implemented the user interfaces for Datek's first options trading product.

Web Developer, Hewson Group

Sep 1997 — Sep 1999

Worked closely with graphic designers to code pixel-perfect brand identity and recruiting sites for several of the largest law firms in New York.

Education

New York University

Bachelor of Arts, Philosophy, 1999