

# alex stoykov

Architect | Technical Lead | Consultant

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## PROFILE

**Expert Architect and Lead** with over 15 years of professional experience with number of technologies in low latency and high throughput industries like telecoms, gaming, retail and investment banking.

Certified **Agile Scrum** practitioner, lead in house and overseas teams and designed global solutions and processes. Designed and delivered complex projects with quality and on time.

Business domain experience in all aspects of the trade lifecycle and **Fixed Income** products, **Derivatives**, **Equities**, **Order Management**, **Client OnBoarding**, **Risk** and **Pricing**.

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## EDUCATION

**MSc in Computer Science**  
Technical University, Bulgaria  
Graduated 2002

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## SKILLS

### Certifications:

- o Coursera: Functional Programming Principles in **Scala** (EPF de Lausanne)
- o **Agile** Practitioner
- o Sun Java Programmer/Developer

### Business:

- o Bonds, Swaps, Swaptions, FX, Forwards, Options, CDS, OIS, Futures, Curves etc
- o ECN Systems: Bloomberg TOMS, ION, TradeWeb, eSpeed, Fidessa, MarkIT, Murex
- o Message Protocols: Bloomberg TCP, FIX, SFTP, FPML, OUCH

### Technical:

- o Expert Core **Java**: Java 8, Concurrency
  - o **Scala**, **Akka**, Spring, MQ, NodeJS, Apache Pig, **Hadoop**, XSLT
  - o Popular OS frameworks: Spring, Apache, Camel, Ikasan
  - o Building and QC: JUnit, Mockito, Gradle, Maven, CI, Bamboo, JIRA. Fitnesse, jBehave
  - o Data: Oracle, MsSQL, **Coherence**, Redis, MySQL, Sybase, MongoDB
  - o TomEE, JBOSS, WebSphere, WebLogic, GlassFish
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## EXPERIENCE July 2011 - July 2015 Integration Architect ( Contract, 5 renewals)



### Mizuho Securities, London

Working in the Enterprise Delivery team, I am responsible for the integration of virtually all of the bank's internal and external systems, implementing the financial streams and interfaces.

My role is to research, gather requirements, design and deliver solutions for ETC, RegRep, Pricing, Liquidity, Risk, Compliance, etc.

During my time in Mizuho, I have implemented numerous solutions, some of which are listed below:

- Fixed Income Trades ETC

Interfacing to Bloomberg TOMs using a proprietary protocol over TCP/IP and sourcing trades confirmations to deliver them to interested downstream systems. The work involved implementing the trade feed protocol using JCA and Ikasan.

- Optimisation of the EOD pricing feed

My task was to increase the performance of the existing EOD pricing process. The goal was achieved by re-designing the existing Java solution and building a price cache with Coherence, which resulted in decreasing the delivery time from several minutes to under 20 seconds. *Sybase SQL, Aggregation, JDBC, Scala, Akka, Coherence*

- Region to Region trading

A highly complex trade management solution for cross-region FI Bond trades. Handling complex scenarios and traders race conditions.

I designed the solution concept and identified the trade state model. The region to region system was successfully rolled out between Mizuho HK, London and New York offices, providing a reliable automated management solution for over 2000 cross region trades daily. *JCA, JMS, XSLT, State Model, GUI, ESB, FIX 4.4, etc.*

- Liquidity Management and Risk

Designed a Liquidity Risk and Management solution by processing Cash and Statement SWIFT messages into a Mongo DB collection and distributing aggregated reports to Risk, Compliance and PnL. Technologies used: Scala, XSLT, REST, etc.

- New Transformation Program interfaces

Mizuho undertook a big technical transformation project requiring a complete overhaul of almost all current data streams as well as integrating new. Areas of business included OTC Derivative products such as Interest Rate Swaps, overnight Index Swaps, Credit Default Swaps, FX Forwards, Swaptions and Options from Murex into GlobeOp. *FpML, Web Services, XSLT, ESB and MQ.*


**April 2010 - May 2011 Architect/Lead (Contract, one renewal)**

 **Monitise Plc** Leading mobile banking technology in UK, US and Asia

Provided technical leadership, architecture and implementation of a **new continuous delivery process**, which spanned across all group departments and achieved the targeted **save of about 90% of zero business value release effort**, as well increasing the product quality. Established a new Dev-Ops culture, closing the gap between development and infrastructure.

Designed and supervised the development of the a new mobile money platform, which served over 3.5 million customers daily and used by major banks such as HSBC, Lloyds, Coutts, RBS and others. UML design, TDD, Agile, recruitment.

**Nov 2009 - April 2010 Technical Lead (Contract)**

 **Celona Technologies** Leading provider of new generation zero time migration systems

Provided technical leadership of the core development team, responsible for designing and development of the main highly transactional product (around 3000 transactions/s).

Performed a series of cluster load testing and as a result optimised the code for better performance.

As a result the better performing and more stable product helped the company to attract and acquire big clients such as ABN AMRO Bank and Balfour Beatty.

Oracle TimesTen, Coherence, Java

**Jan 2008 - Oct 2009 Technical Lead**

**Misys Plc** Leading banking solutions provider



Worked on the architecture and development of the flagman financial messaging platform also providing integration with Midas, Equation, Universal Banking, Trade Innovation and Loan IQ.

I was a Lead engineer in the SWIFT payments team working on the Payment Manager product responsible for a team of 10

UK and 30 overseas developers.

Responsible for design, development, and delivery of a high volume low latency payment system for clients such as ABSA, Standard Bank, Credit Suisse, Bank of Kuwait and another 50 banks worldwide.

Adopted the best build and quality control standards and designed a global ESB platform as a move towards SOA paradigm.

Performance tested the payments system in IBM Hursley on zOS for client certification.

Mentored junior developers and cleared off technical debt.

In 2009 our 15 man strong team achieved top performer recognition within the group.

**Before 2009**

**Senior Software Developer at Mfuse Ltd, Dun and Bradsted, Novatel Systems, Mtivity, Ls Telcom**

## TECHNOLOGIES

A tag cloud of known technologies and acquired skills:

Agile Liquidity Murex Gradle JDBC FIX JVM Optimisation  
MarkIT Ikanan GlassFish TCP/IP Risk Spark Mocks  
Map/Reduce Concurrency Linux eSpeed Apache JCA  
Docker Mobile Weblogic HTML Swaps TOGAF UML  
ETC Maven Java XML CI JaaS REST Datagrids  
Messaging Hadoop Spring SOAP Oracle JUnit AKKA  
Pricing Derivatives SCRUM JIRA Fixed Income  
Coherence Reactive Bloomberg Websphere SQL Fidessa  
ION Scala Sybase JBoss Camel