

Ernesto Sigal

- > Information Systems Engineer
- > Core Java Developer

SUMMARY

I'm a Senior Java Developer with 5 years commercial experience in the financial sector and 8 years academic experience including teaching, research and independent projects.

I have a particular interest in business analysis and educating end-users. As an Engineer, however, my passion lies in getting things done. I enjoy being handed a problem, delivering a solution and being able to experience and measure how the users or the business benefit from it.

I've been acknowledged for my capacity to tackle challenging issues, analyze viable alternatives, and provide innovative solutions.

SKILLS

JavaSE, Spring, Javascript, AngularJS, HTML, C++, SQL, Elasticsearch, Git, SVN, Spread Betting, CFDs, Stockbroking, Commodities, Oil Trading, Maven, Agile, Scrum, XML, Mockito, TestNG, TDD, BDD, OOP.

EXPERIENCE

October 2013 - Present

Noble Europe

Analyst Developer (Oil)

Software development and business analysis role for the oil business in one of the largest commodity supply change managers worldwide.

- > Designed and developed Oil business applications based on microservices and reactive systems.
- > Designed and developed an automated intraday reconciliation and booking system with a focus on non-conventional sources such as Statements and screen-scraping. This application reduced trade capture latency for trades not reported by conventional feeds from end-of-day to near-real time allowing controllers to accurately monitor positions.
- > Developed an application for automated reconciliation of exchange based trades throughout their lifecycle. The Java+AngularJS application synced data from multiple ETRMS and compared 3M+ open fills to feeds from clearers and exchanges in real time. This application provided derivatives controllers with real time reconciliation of prices and fees, replacing a manual and error prone process that took over 4 hours a day.
- > Designed and developed a profit and loss analysis application that allowed users to create custom pivots and get real time valuation figures. The tool synced the ETRMS' 20M+ daily valuations in real time into an Elasticsearch cluster holding 4000M+ documents. An AngularJS custom built pivot table displays the data of up to 80M documents aggregated in ~1 second. This tool allowed Middle Office to analyze and sign-off profit and loss in real time instead of relying on close of business scheduled reports.

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March 2012 – October 2013

IG

Java Developer (Core Dealing)

Software development role within the main booking system in the world's largest financial derivatives firm.

- > High involvement in development and maintenance of Order Server, IG's main booking application using JMS, JAXB, JDBC, Spring and Coherence.
- > Work in a small Agile Scrum team, using TDD based on TestNG and BDD using our internally developed Integration Test Framework.
- > Profiled integration test framework for main booking system, cutting down initialization time by 95% and saving hours of developers' time.
- > Participated in planning and executing migration to new messaging broker, maintaining resiliency and transactionality standards.
- > Designed and developed the JMS layer of the booking system's input protection framework.

January 2008 – December 2011

Panavox Servicios Informáticos

Technical Engineer

- > Supervised and provided support for all information systems for five companies.

January 2007 – December 2008

Facultad de Ingeniería - Universidad de Buenos Aires / UBA

Teaching Assistant

- > Guided students in highly project-oriented courses focused on low level aspects of computers.
- > Assisted the Professor in grading examinations and projects.
- > Courses: Microcomputer Laboratory, Computer Architecture.

EDUCATION

March 2003 – March 2011

Universidad de Buenos Aires / UBA – Buenos Aires - Argentina

Engineer, Information Systems

- > Equivalent to MEng UK Standard. Highly focused on scientific and engineering aspects of computers and software development.

REFERENCES

References are available upon request.