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Profile

Experienced **Java & C# .Net lead developer** with a solid track record in architecture, design, development, testing & support of multi-asset fintech market making. Key strengths: **FIX, JSON & SWIFT** messaging; **TDD micro-service** development with Java, C#, Spring Boot, WebFlux, SQL API, Docker, Git & AWS; future state **requirements tests**; WinForms **front end UI**; HTML, CSS, JS & React UI; agile planning; and building long term stakeholder **relationships**.

Core Competencies

- **Development** – Low latency price & order messaging (blocking & async); Java & C# .Net micro service TDD; Spring Boot, WebFlux; Docker; Broadway TOC, RV, Apache Geode; HTTP & WebSockets; FIX & SWIFT tags, JSON transformations; encryption; MS & Postgres SQL; WinForms UI; Node, JS, HTML, CSS, React UI.
- **Front office FX & FI** – FIX connectivity; real-time FX spot, forward & swap RFQ pricing, quoting, orders, execution, positions & hedges; FX options quoting, orders & execution; IRS NPV quoting & execution.
- **Middle & back-office FX & FI** – SWIFT implementation & testing; FIN MT & MX 103 / 202 / 300 / 900 / 910; SSI; fees & charges analysis; correspondent banking network analysis; STP FX payments; MiFID 2 reporting.
- **Requirements analysis** – RFQ platform architecture specs, user stories, rich pictures & data flow diagrams; gap analysis; Agile stories; Git & Azure DevOps board plans & burndowns; user & developer documentation.
- **Agile team management** – JIRA epics, features, story management, poker planning, retrospectives.

Work Experience

FixSpec Ltd, London (Contract) FI Engineering Lead **Oct 2022 – Oct 2023**
- AxeTrading required FIX engines for interest rate swap RFQ quotes & deals on Tradeweb & Bloomberg.
- I used TDD, Java, Spring Boot, WebFlux, Docker, Git & AWS to build FIX engines with FIX, FPML & JSON.
- I created auto-test strategies to design & develop multi-threaded Java FIX engines to Tradeweb under React UI.

Impress Solutions, Essex (Contract) FX Tech Lead **May 2017 – July 2018, Dec 2019 - Aug 2022**
- Impress required a BARX FIX enabled FX spot, forward & swaps RFQ platform with SWIFT MT / MX payments.
- I used TDD, C# .Net, Specflow, Java, Apache Geode, Azure & SQL to automate FX conformance tests and develop .Net micro service architecture. I also designed, tested & built the FX trading desktop UI using WinForms (later WPF) over C#. For a web front end, I selected Spring Boot & WebFlux for real-time sinks of FX messages into a React UI.
I led TDD of direct-to-bank HSBC & Barclays SWIFT MT & MX pain.001 transfers, camt.054 debit & credit notices.
- I was technical lead for FIX & SWIFT project work.

ING Bank, Moorgate (Contract) FX Engineer **Aug 2018 – Nov 2019**
- ING required a complex migration of FX spot, forward & swap RFQ & RFS products from RET to Broadway Toc.
- I used TDD, Java & Broadway TOC API to build micro-services for FX credit checks & deal workflows. I configured & implemented Maven, Azure DevOps agents & Broadway TOC admin studio. Exposure to Murex & D3 configuration.
- I designed, developed and tested multi-threaded business critical Java n-tier micro services.

Eiger FX Direct, London (Contract) FX Technology Manager **Mar 2015 – Jan 2016**
- Eiger FX required an FX technology roadmap to in-house FX spot, forward & swap RFQ deal & cover with clients.
- I produced architecture spec for real-time front & back-office components based on FIX, SWIFT & JSON. Developed front-office engine using Java & LMAX disruptor. Developed back-office engine using SWIFT MT103 auto-payments.
- Eiger successfully in-housed their core FX spot, forward & swaps RFQ trading and SWIFT auto-payment platform.

UsrTec, Caterham (Contract) FX Developer **Dec 2014 – Mar 2015**
- UsrTec required a FIX engineer to write a C# .Net FIX RFQ prototype.
- I wrote C# .Net components to connect an internal FIX engine to RFQ pricing & execution provider; translate FIX orders, price and deal messages into JSON; use MSMQ to send prices & deals to Web UI and persist to SQL.
- UsrTec successfully demonstrated the prototype to include in future IT planning.

Kantox, Barcelona (Permanent) FX Chief Architect **Aug 2013 – Oct 2014**
- Kantox required an expert FX spot & forward technology analyst for peer-to-peer and RFQ executions.

- I produced architecture spec for FX spot & forward micro-services and client requirements; I specified FIX pricing and execution engine and recruited 2nd engineer to implement; Specified & implemented SWIFT Alliance Lite 2 for MT103, 210, 300, 900, 910 FIN payment messages that I implemented in Ruby with rSpec TDD.
- I successfully set a direction for Kantox future state FX technology with FIX & SWIFT.

Nomura, London (Contract) FI Business Analyst **Feb 2012 – Apr 2012**
- Nomura's required production support sign-off of their credit, interest rate & FX "Unity" platform before go-live.
- I delivered SLA documents for interest rates deal lifecycle. Interviewed stakeholders to define project scope and target documents; Documented data and process models over Gemfire; Ran acceptance criteria for production SLA.
- I successfully drafted technology runbooks, system administration guides and user guides for rates desks.

BNP Paribas, London (Contracts) FX Architect / BA / Support Analyst **Sep 2007 – Jan 2012**
- BNPP required research for a next generation cash FX market making platform.
- I identified top 5 use cases for cash FX market making; Assessed current state user stories and data flow models. I interviewed core FX stakeholders to capture CATWOE root definitions and target use cases.
- Successfully documented root definitions & top 5 FX market making use cases. Ran gap analysis on current state.

- BNPP required 64-bit FX sales and trading apps to remove negative PnL impact of using 32-bit apps.
- I evaluate 64-bit Win 7 desktop apps. Reviewed FX sales & trading apps; created 64-bit Win 7 FX trader environment; tested cash FX market making dealer applications; presented spreadsheet of actions, owners and due dates.
- Successful delivery of Win 7 workstations for the London, NYC and Singapore FX trading desks.

- BNPP required less front office FX technology change outage.
- I improved FX change management of Broadway TOC platform. Interviewed stakeholders on change risks to FX apps; moved change documentation to JIRA and set up risk analysis, report & signoff technique; I led change plans using JIRA and an action, owner, due date & risk sign off approach.
- Setup a "risk free" environment for unlimited high speed FX technology changes.

- BNPP required support of cash FX sales and trading applications.
- I ran daily checks of FX market making and FIX connectivity with ECN's (EBS, Reuters, FXAll, 360T, etc.) over Broadway TOC; identified incidents; investigated & communicated root causes, produced tactical fixes, sent reports for development; updated documentation; deployed FX production changes & checks. Supported SWIFT directories.
- I successfully supported FX cash market making pricing and distribution (RFQ and streaming prices) apps, UI, orders (manual DI and auto), deal capture (spot, forward, swap, NDF, SSP, Block, FX options), spot position keeping feeds (spot effect crossing & de-crossing), hedging (FX spot auto hedger and manual hedging) and STP to middle office.

FXAll, London (Permanent) FX Support Analyst **Dec 2004 – Sep 2007**
- FXAll required production support for competitive multi-bank FX spot, forward & swap RFQ platforms.
- I used Putty to monitor bank FIX connections and client UI connectivity; I proactively resolved operational issues & escalated development; performed changes & checks; Wrote C# monitoring scripts; recruited & trained team member. Supported STP payment engines for SWIFT MT300, 202, 210 and 103 in FXAll Settlement Centre.
- I successfully supported FX spot, forward, swap, block, NDF, Single Spot Portfolios, X-CCY aggregation, Money Market rates, FX options & FX product innovations (A2A dealing) and their associated STP to middle office.

ECapitalTrack, Pewsey (Contract) Developer **Jan 2003 – Jun 2003**
- eCapital required interest rate reset fixes and market data platform data flow improvements.
- I introduced target platform, with better logs, validations & time stamps; Analysed and set targets for development; Used ASP / SQL Server / ADO and VB to write interest rate fixing services and book fixing data to SQL Server.
- Successfully produced daily spreadsheets of interest rate resets.

ABN AMRO, London (Contract) Systems Support Analyst **Apr 2002 – Sep 2002**
- ABN required technical support for the RIMS FX and equities STP payments.
- I supported trade enrichment, FX and equity trade flow, API messaging, CREST and SWIFT messaging. Ran daily system checks; monitored trade processing; mitigated outages; ran daily position keeping and risk reports.
- I successfully supported equity and FX post trading systems.

Misys Securities Trading Systems, London (Perm) Pro*C Developer **Feb 2001 – Nov 2001**
- Misys required fixed income STP and SWIFT FIN message development for equities, bonds and FX payments.
- I captured requirements, replicate issues and identify solutions using UNIX, Oracle Pro*C and PL/SQL.
- Development of Pro*C, PL / SQL Triggers & Stored Procedures; building, testing & releasing binaries to clients.

Sage, Maidenhead (Perm) C Developer **May 1998 – Feb 2001**
- Sage Enterprise required C developers to maintain and produce accountancy software.
- Capture client accountancy software requirements and deliver solutions.

- Development & testing of C & SQL binaries to successfully release accounting products to clients.

Education & Training

Professional certification: ACI Dealing Simulation Course (ACI) in FX spot & FX options market making.
Currently studying for ACI Diploma (https://aci-uk.com/aci-diploma/)
Currently studying https://www.edx.org/boot-camps/coding/skills-bootcamp-in-front-end-web-development
Currently studying Rust
Education: MSc Entrepreneurship (Bristol University)
BSc Information Systems & Management (London University)