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| Maurice Nicholson  Tech Lead/Manager | horizontal line Maurice Nicholson Blackheath  SE3  07990 813303  maurice@mauricenicholson.com |
| **ㅡ** Why hire me? 👋 | horizontal line  I'm a seasoned and still very passionate *Developer*/*Tech Lead*/*Manager* with *20+ years* in industry, most recently on *high-frequency low-latency* end-user-facing trading web apps for Investment Banks.  I write clean, simple, flexible, tested code. I care about the end user and sweat the details: usability, design, *performance*.  I love learning and to be challenged, and bring ideas, positivity and productivity every day. |
| **ㅡ** **Experience 💪** | horizontal line Tech Lead/Manager: FX Orders, eXecute 2.0 / J.P. MorganDEC 2018 - PRESENT, LONDON FX Orders is the most strategically important part of eXecute 2.0 so pressure to deliver is high. My team continually outperforms and report they feel trusted and empowered in retros. Like-for-like business is way up compared to the previous version of the product.   * Facilitated tech team brainstorming and design meetings to get the best people together to agree on the best plan * I evangelised *automated end-to-end testing*, made many productivity improvements to our shared tooling, and we have a large and growing test suite, giving us massive confidence in our changes * Automated manual dependency upgrade saving hours of developer time every week * Flagged tech debt / deficiencies and initiated strategic refactors   I use *TypeScript*, *React*, *RxJS*, *Selenium*, *git* every day. Tech Lead: StratX / J.P. MorganDEC 2017 - DEC 2018, LONDON Mainly staffed by external consultants, I helped them learn the business and our tech. We built a new web app with *TypeScript*, *React*, *Redux*, *redux-observable*, and extended our *Java* services, while setting a new high bar for productivity with various technical innovations. Tech Lead: MiFID II, eXecute 1.0 / J.P. MorganSEP 2017 - DEC 2017, LONDON 11th-hour project to meet *MiFID II* regulation before the JAN 2018 deadline. They chose me to kickstart and then lead a small team based on my track record of delivering quality, on time.  I modelled the user workflow with a classic *Finite State Machine*, which made the build-out very straightforward, and did fortnightly Show and Tell sessions for stakeholders. *Flex* GUI, *Java* server, *protobuf* messages over *Nirvana*. Senior JavaScript Developer: Algo Central / J.P. MorganFEB 2016 - SEP 2017, LONDON An *industry award-winning product* providing a new way to structure FX Orders with intelligent real-time analytics. Now copied by other firms!  This was new territory - our first substantial JavaScript project - so required lots of learning, info shares, discussions. After months of evaluation we settled on *TypeScript*, *React*, *Redux* and *RxJS*, which we’ve been using heavily since.  I personally took a very deep dive into *RxJS* and coached others. Senior Flex Developer: FX Trading eXecute 1.0 / J.P. MorganMAY 2012 - FEB 2016, LONDON I joined when the project was fairly young but needed some love; I drove a more *modular architecture* as we iteratively teased apart the monolith and onboarded other LoB’s trading widgets.  I initiated many other *strategic refactoring*, eg while upgrading from *Nirvana 6* to *Nirvana 7*, I rewrote our messaging abstraction with something simpler, more efficient and pluggable so that we could migrate users in stages.  Spent months *profiling and optimising* various user-facing features. Flex Developer: Rates SDP / HSBCMAY 2011 - MAY 2012, LONDON Just a couple of many highlights from the this project for me are:   * Building an *iOS Contacts style virtual list component*, capable of handling *100Ks records*, and at the same time using a paged-data API to fetch data from the server on demand to provide silky-smooth scrolling while consuming a tiny amount of resources in the GUI * Optimising the free-text search in the instrument grid for 12 text fields in 20K records: before it took *60 seconds and 130Mb memory*, after just *3.5 seconds and 30Mb*. Nobody asked me to do this, but it increased my productivity as the GUI loaded faster :-)  Flex/Java/SQL Developer: Credit Risk Limits / Deutsche BankMAY 2010 - APR 2011, LONDON One of the bank’s Top 100 strategic projects (across all regions and sectors), replacing existing tools and simplifying Credit Risk Officers’ ability to view, create and maintain credit facility limits across the whole bank.  An existing legacy *Oracle* schema with a new *Parsley/Cairngorm Flex UI*, *Spring* backend with *iBatis* and *BlazeDS remoting*. I worked on all three tiers.  Within my first week I suggested and developed a productivity solution so Flex developers could see their changes in 10 seconds, down from 90! Lead Full Stack Developer: Credit Risk Portal / Deutsche BankAUG 2007 - MAY 2010, LONDON An ahead-of-its-time JavaScript web app providing sophisticated data analysis. The users consistently praised the app for *usability* and *short feature lead times*, and it became the benchmark for new projects.  I started as a *JavaScript UI developer* and became the *Lead Developer*, working on the *Oracle DB* and *Java* server. I initiated strategic refactorings, eg   * Modularising the monolithic codebase and replacing home-grown libraries with Open Source alternatives * Optimised developer workflow with refresh-to-reload-changes, WAR-less deployment and a new *Ant* build system  Lead Full Stack Developer: zipatrip.com / DMC DigitalJUN 2007 - AUG 2007, LONDON An experimental project to aggregate travel tips, itineraries, etc.  *Grails* server with *Prototype* and *Scriptaculous* *HTML/JavaScript UI*.  Search was a big part of the project and I took a deep dive into *Lucene* and *Compass*. Full Stack Developer: dealchecker.co.uk / DMC DigitalMAR 2006 - JUN 2007, LONDON  * Built the “Holidays” product with Appfuse, *Spring 2*, *Hibernate 3* and *DWR* * Replaced legacy *Ant* scripts with *Maven*, standardising source code layout * Quickly built 4 internal web apps, a couple using *Ruby on Rails*  Online Offering Lead / opodo.comJUN 2004 - MAR 2006, LONDON *Site Flexibility:* The introduction of a Web CMS to allow rapid site content changes   * Helped the business evaluate 3rd party Web CMSs * Analysis and design of migration solutions of existing CMS-managed content via XML feeds   *Dynamic Packaging:* Real-time priced flight/car/hotel combinations   * With XML web services intended for in- house and external use   *SEO/Tracking:* To promote natural search engine traffic   * Business wanted to update tracking tags in pages without involving IT, so I helped to design an internal web app, introducing the first use of *Spring IoC and MVC* at this company, *Hibernate* and *Velocity* and custom *JSP tags* for the page templates   *Spree:* Adding a shopping basket; previously users had to by car/hotel/flight in separate transactions!   * I lead a team with iterative design and development of the middle and web tier on top of a Struts, Tiles and EJB 2 server   *Some other achievements*   * Lead migration from proprietary JSP tags to JSTL, eliminating 1000s lines of proprietary code * Massively increased developer productivity by moving the Ant build from centralised Unix build to per-developer Windows builds  Senior Analyst Programmer / SITA ATSAPR 2002 - MAY 2004, SURREY  * Built several flight booking websites for top-tier Airlines (eg, BA, Air NZ), end-to-end. I worked on the *Spring Java server*, integrating with the *mainframe pricing and reservation systems* and *HTML UI*s * Trained customers from around the world in our other middleware software  Java Developer / priceline.comAPR 2000 - APR 2002, CONNECTICUT, USA  * Worked on the Flight System, which evaluated customer bids against real-time flight availability and prices * Created utilities to simplify support activities, eg, aggregating logs to allow analysis of per-bid system behaviour  Analyst Programmer / SITA ATSSEP 1998 - APR 2000, SURREY Maintained and developed various middleware/gateway/messaging systems written in C, C+ + and scripted languages. |
| **ㅡ** **Education 🎓** | horizontal line 2:1 Dual Honours Computer Science and Music BSc/ KeeleGRADUATED 1998, UK Final year projects:   * Comp Sci: Neural Networks * Music: Composition |
| **ㅡ** Out of Office 🕺 | horizontal line  I stay fit and healthy, enjoy good food, walking my 2 dogs and traveling. |