

JACK ALEXANDER HIGGS

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EDUCATION

University of Bath

June 2010

BSc (Hons) Computer Science with Industrial Placement (2:1)
Final year dissertation: Sensor Frameworks for Engine Health Management
Communications Officer for Latin and Ballroom Dance Club

EXPERIENCE

J.P. Morgan Chase & Co

April 2019 - Present

Vice President, Data Engineering

London, United Kingdom

- Architected, led and delivered a Model Repository written in Scala to store the bank's logical data models in an atomic format. Involved implementing generic derivation, functional relational mappings and recursive queries. Adhered to Domain Driven Design principles, and used functional style Scala throughout.
- Managing the wider Model Release Process project with resources in London and India.
- Delivered a Model Repository web service written with Scala's HTTP4s and Cats, as well as a Kotlin client.
- Implementing Model Release Dashboard in React, adhering to the firm's new design language.
- Introduced OAuth security, entitlements and metrics publishing to the stack.
- Technically challenging polyglot role using Scala, Java, Kotlin, SQL and HTML/Javascript (React)

J.P. Morgan Chase & Co

October 2017 - April 2019

Vice President, Commodities and FX Technology

London, United Kingdom

- Led and delivered a time critical project for the Bank to fulfil their pre-trade regulatory requirements under MIFIDII for the Commodities and FX business.
- Architecting, implementing and managing the development of a new RFQ platform for Commodities and FX. This involved close user collaboration, as well as working with product aligned technology teams to get them on-boarded on to the platform.
- Prototyped and delivered a real-time client position monitoring tool for Sales/Trading across Fixed Income.
- Heavily involved in defining future technology strategy for the Sales Desks.
- Working closely with senior stakeholders on the desks and in Core technology teams.
- Provide support to Sales and Trading Desks as required
- Work predominantly in Python (Athena), SQL and HTML5/Javascript.

J.P. Morgan Chase & Co

March 2015 - October 2017

Vice President, Finance Technology

London, United Kingdom

- Architect, Team Lead and Applications Developer for Regulatory Reporting Technology, with additional responsibilities across the Valuations Control Group and Regulatory Capital Management Office (RCMO).
- Architecting and leading the development of the firm's new International Regulatory Reporting platform. Moving from an expensive vendor product to a streamlined and efficient in-house calculation framework written in Python.

- Led a team to implement SA-CCR - a new counterparty credit risk regulation going live in 2018 for multiple jurisdictions.
- Led and delivered the Capital Desktop project for the RCMO Team. This involved designing and implementing applications to execute ad-hoc RWA Recalculations, capture RWA Adjustments and replace various user tools.
- Improved hardware infrastructure metrics and reporting. This led to a significant reduction in cost for 2016 hardware orders.
- On the winning team of a firmwide Hackathon where we developed an anomaly detection web application for timeseries data.
- Introduced improvements to the team's SDLC to promote code reuse and enhance developer communication.
- Pitched and introduced Cassandra into the wider team's architecture.
- Work predominantly in Python (Athena), Pandas/Numpy, SQL, Hadoop and Cassandra.

Goldman Sachs

Associate, Sales Services Technology

January 2014 - February 2015

London, United Kingdom

- Building out a web platform and delivering applications for the sales organisation within the Securities Division.
- Technical Lead for the Nexus Regulatory project to provide views on client documentation status. Led a team of three developers and delivered ahead of schedule. Involved developing a complex bespoke tree-grid and uplifting existing services to RESTful APIs.
- Delivered RESTful services to provide data for a sales commission application built on the Nexus platform.
- Leading the effort to introduce continuous deployment and integration testing.
- 100% development role following the Agile Methodology.
- Provide leadership by informing technical biases and overseeing design/code reviews.
- Work predominantly in HTML5/JavaScript (AngularJs), Java, and SQL/MongoDB.

Goldman Sachs

Analyst, Equity Derivatives Trading Technology

July 2010 - December 2013

London, United Kingdom

- Developing applications for and directly supporting the Equity Derivatives Franchise in EMEA.
- Delivered a new Options RFQ system for internal salespeople. Billions of notional has been booked through the system and it continues to be supported and enhanced.
- Delivered an enhanced options profitability framework for the traders that informs pricing on a client-by-client basis.
- Designed and delivered a Sales Blotter framework providing Sales with live and historical views of Trades, Client Positions, RFQs, Listed Options etc.
- Constant interaction with traders, salespeople and quants.
- Work predominantly in Slang/SecDB which is a proprietary language and database for the Securities Division. Also delivered projects in Java/C#.

TECHNICAL STRENGTHS

Programming Languages

Scala, Java, Python, Javascript, HTML5, CSS

Frameworks & APIs

Cats, Pandas, Numpy, Flask, React, Spring, Google Guice

Databases

Hadoop, Cassandra, Oracle, MySQL

Tools

Git, Gradle, Jenkins CI, JIRA, Crucible

REFERENCES

References can be provided on request.