## Feroz Panwaskar

### Senior Developer

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### Profile

Feroz is a Senior Developer with 24 years of experience in designing and developing software solutions. He is a detail-oriented person with strong problem solving skills. He always looks to build a strong understanding of his domain but also of the wider architecture and stack. He always prioritises quality of solutions based on an understanding of how it can impact efficiency of delivery at the time and going forward. Feroz is a driven and delivery focussed individual that is transparent at all times looking to enable the business to deliver success. Alongside that he does not have a big ego and wants to grow and learn, but also help those around him grow. All of which makes him a strong all round developer, a team player who can work in any environment and someone colleagues enjoy working with and respect.

### Core Skills

| **Language/Skill** | **Exp. within skillset** | **Proficiency** | **Notes** |
| --- | --- | --- | --- |
| JavaScript | TypeScript, React v17+, Angular v8+, GraphQL, Redux, Rxjs, D3.js, Chart.JS, VisX, Next.js, Highcharts, AgGrid, Jest, Mocha, Jasmine, Playwright, Express | Advanced | 12+ years experience implementing spa, server side rendered and node applications/api's. |
| Python (3.7+) | FastApi, Pandas, Numpy, SqlAlchemy, PyTest | Advanced | 3 years experience.  |
| Java | Spring, Hibernate, Junit, Mockito, EasyMock, Grails, Golang, Jsonnet | Intermediate | 10 years experience. |
| Unix | WSL, Ubuntu, Centos 7+8, Bash. | Proficient |  |
| Persistence | Mysql 5-8, Postgres, Oracle, MongoDB, QuestDB, Redis, Kafka, RabitMQ. | Advanced |  |
| DevOps | Terraform, Bamboo,Jenkins, BitBucket, BB Pipelines, GitLab PL, AWS, GCP | Proficient |  |

*Where proficiency levels start and go through to, beginner, intermediate, proficient and advanced*

### History

#### Senior Developer, Aquis Exchange Plc, London (Permanent Jan 2019 - Oct 2024)

Helping to deliver frontend applications for Aquis MTF (Pan-european cash equities), Aquis Stock Exchange (AQSE, primary exchange) and Aquis Technologies. Working across teams to gather detailed requirements, maintain builds, monitor releases and test deliverables. Most recent projects include:

* Elements-UI a large scale frontend application built on the Grafana open source platform. Providing 100+ complex dashboards with data visualisations for our surveillance, operations and reporting teams to manage and monitor all Aquis Exchange systems. Implemented custom Grafana plugins in React, a chart plugin built on VisX, table plugin using AgGrid and a configurable form plugin based on React hook forms. Api’s implemented using Python and FastApi for caching (Redis) and data authorisation. Maintaining terraform and CI builds to provision the system onto a cloud provider. Plugin tests implemented using Jest and end-to-end testing using Playwright.
* QaPy 2.0, implementing an improved version of an internal testing framework using python. Using the PyTest runner we implemented an api to test complex scenarios across different protocols supported by the system e.g. FIX, ATP, etc. This enabled the backend team to test the system on our build platform and fail faster ensuring software had no or fewer bugs. This requirement came from production outages on the backend which were costly to the business both financially and in reputation. It also enabled the QA team to replace a costly test tool.
* Colombian Exchange Bid, implemented features in a real-time trading user interface implemented in Angular to meet the requirements of the client and demonstrating the functionality to the end user. Features included redesigned book view; quick order placement via bookview, with ability to sweep all orders depending on position; keyboard shortcuts to drive interactions and custom chat features. Aquis went on to win the project to deliver the platform.
* Aquis Exhchange website redesign, https://aquis.eu. A medium sized server side rendered Nextjs application using React with a mixture of dynamic and managed content. CMS was implemented using the opensource strapi project, api's for dynamic data was implemented using Python and FastApi.

*Keywords: Typescript, Angular, React, React hooks, AgGrid, React hook forms, Visx, Tailwind css, NextJs, Strapi CMS, Jest, Playwright, Docker, Grafana, Python, FastApi, Pytest, QuestDb, Redis, Fix Protocol.*

#### Full Stack Developer, Aquis Exchange, London (Contract Jan 2018 - Jan 2019)

Working for Aquis Exchange, a Pan-European trading venue, within a team of 2 fullstack javascript and 4 C++ developers. Developing and maintaining web based real-time products, used by our surveillance, reporting and operations teams. Building up a reasonable understanding of the domain and the backend system to deliver new features and resolve issues. Also liaising with technology clients and suppliers to drive forward delivery of the system. Key milestones:

* Integrate ICE and CME drop copy feeds and ICE data services market data feed with a node service to push data into the platform so that a client could then leverage the surveillance tools.
* Implement components library in React to replace existing functionality in a legacy framework while delivering new requirements with a view of getting feature parity to enable us to have a short project to replace a legacy web application.
* Implement a real-time web based trading user interface in Angular with the ability to push an order into the system, display live market status, market depth and give users visibility of their orders and trades. The project involved implementing an api layer in NodeJs that handled subscription management, authorisation, authentication, orchestration and caching. The project also required defining changes required to the backend interface to enable seamless integration.

*Keywords: Node, docker, Angular, React, Rxjs, Extjs, Ng-rx, AgGrid, Typescript, Highcharts, Fix protocol*

#### Full Stack Developer, Connected Homes/British Gas, London (Contract Jan 2017 – Jan 2018)

Working within the Energy Insights team as a full stack developer in a team of 2 to deliver and maintain the My Energy product for British Gas and implement other standalone projects. My Energy is a medium sized web application that provides customers an insight into their energy usage by surfacing their data from their smart meter. Also helping to implement a Partner Portal, web application to surface operations, sales and performance data for Hive partners. While mentoring and supporting team members coming from other disciplines to develop using nodejs and react.

Keywords: Node, express, GraphQL, ES6, Angular, Mocha, D3js, React, Redux, Reselect, Jest, chart.js, docker, amazon ecs

#### Javascript Developer, Dixons Carphone, London (Contract Jun 2016 – Dec 2016)

Working Part of a small team to deliver a suite of tools to accelerate testing across the group’s projects. The tools consist of a command line interface (WAF) delivered with node and a web interface (beeQ) for managing tests built using AngularJs. The goal being to enable non-technical staff to write functional tests with little or no technical knowledge. Leading regular demos to senior management.

*Keywords: Node, Cucumber, Protractor, AngularJs, Angular Material, Sails.js, Passport.js, Mongodb, mocha, docker.*

#### Interactive Developer, Burberry, London (Contract Oct 2015 – Apr 2016)

Being asked to return to Burberry for a short-term contract to help deliver an e-commerce web application. A large-scale application implemented in Backbone js. Within an environment where brand aesthetics and consistency are of utmost importance the development team works closely with UX and design. The role involved, evaluating architecture/technology options for a redesign project based on requirements and pain points flagged up by the development team. Helping to implement a number of features and aid the day-to-day agile project activities, demo’s to stakeholders for every sprint and retrospectives. Applied continuous delivery approach delivered to production at least once every sprint.

*Keywords: BackboneJs, Webpack, Grunt, Jasmine, Node, Apidocjs, Velocityjs, Tdd.*

#### Grails Developer, Home Office, London (Contract Mar 2015 – Oct 2015)

Joining the Immigration Platform Technology team to complete delivery of a medium sized grails web application. The application consumed SOAP api’s to give users the ability to search for biometric document requests and provided a workflow for manual intervention.

*Keywords: Grails, groovy, Jquery, Geb, pair programming, tdd, agile, soap, SOA Suite*

#### Senior Developer, Burberry, London (Sep 2011 to Mar 2015)

Working as part of the Digital Solutions team to deliver cloud based in-house applications able to run on the web and mobile. Heavily design driven environment where branding was of the utmost importance. Technical lead on a number of projects. Burberry World, a large-scale Backbone web application that was built on Saleforce chatter rest api’s. Digital Catalogue, a large-scale grails application that replaced large order books that specified seasonal product offerings that were used to drive wholesale appointments.

*Keywords: Grails, Spock, Mysql, Apigee, CI, Jenkins, BackboneJs, Jquery, Brightcove video, Node, TDD, BDD, pair programming, continuous delivery, rest, AWS, Salesforce*

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### Prior Education/Training

* AWS Solutions Architect, 2021.
* Groovy and Grails Course, Skills Matters, 2009.
* J2EE Design and Development Course, 2004.
* HNC Graphic Design, Kingston College 2004.
* BSc in Computer Science, Lancaster University, 2001.

**Conferences Attended**: Full Frontal 2014, Cukeup 2011, Groovy and Grails xchange 2010 & 2012, JAX London 2011, JavaPolis 2008

### Referees

Available on request.