

# MOHAMMAD RAIHAN

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## Java Software Engineer

Enthusiastic, hardworking Professional who is seeking new challenges. I am an individual who strives to achieve the best in all areas, is always eager to learn new skills and progress my career.

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### EDUCATION

Sep 2014 — Jun 2018 Bachelor of Engineering (Hons.) Computer Science, University Of Edinburgh  
Sep 2018 — Aug 2019 MSc Financial Technologies, University of Strathclyde

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### SKILLS

Java, SQL, Oracle, JUnit, Mockito, Spring Framework, Springboot, Spring WebFlux, Reactive Programming, Hystrix, Wiremock, Karate framework, React, Material UI, Maven, Gradle, Performance Testing, REST API's, JIRA, Git, Kibana, Sonarqube, Veracode, AppDynamics, Terraform, Kubernetes, Jenkins, AWS, R, Python, Domain Driven Design, Event Driven Architecture.

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### PROFESSIONAL EXPERIENCE

#### Graduate Java Developer | Barclays UK | August 2019 – October 2021

My role as part of the API development team was to assist in developing and upgrading the existing Barclaycard API's primarily using java alongside Springboot, building and deploying API's using CI, CD pipelines.

##### Achievement Highlights

- Contributed to the development and testing of several API's for the Springboard pipeline.
- Developed a config checker tool for the team to Automate the process of Config validation before production releases.
- Upgraded core libraries that are used by our API's and added functionalities to support all types of HTTP Methods.
- Applied clean coding practices and high level of coverage for our Code using Sonarqube and assisted the team in doing so.
- Contributed to Performance testing API's which includes testing API's using stubbed data. Streamlined the process by developing a stubbing application that can be used by multiple API's.
- Assisted on fixing production issues for multiple API's.
- Contributed to supporting the new joiners in the team with Knowledge transfer sessions and giving walkthroughs for our API's.
- Lead the migration of one of the management API's from one of the old databases to a new one specific to our area of the business.
- As part of the graduate Program I co-founded the Grad connect initiative which helped in the development for recent graduates joining Barclays providing them with support and helping them find mentors.
- The graduate team partnered with QA to deliver multiple trainings with the latest one involving us to build a Webapp and deploying it to AWS. The project covered the full application development stack which included Springboot and React along with Devops tool like terraform, Ansible, Docker, Jenkins and Kubernetes.

#### Java Software Engineer | American Express | October 2021 – Present

As part of our Scrum team my primary role is to Contribute towards the Development of the MARS platform which is going to be replacing the legacy Accounts Receivable systems enabling Amex to gain more revenue and modernize the Accounts receivable across Amex. The MARS platform consists of multiple microservices developed using Spring Webflux and Hypha which is the underlying framework written by AMEX for developing microservices following the Domain Driven Design architecture.

##### Achievement Highlights

- Contributed towards team building and Knowledge sharing by introducing and leading the regular Review and knowledge sharing across the team
- Added Kafka consumers for Message sender tool used to send different message across different microservices across the platform. This tool could only send messages to services prior to this, we are now able to consume messages from outside through the addition of consumers.
- Added encryption and Decryption to the Message sender to test encryption and decryption works prior to releasing it to underlying framework
- Investigated multiple issues involving multiple microservices.
- Identified and resolved race condition that impacting account creation.
- Lead the testing of a new feature developed by a team outside Mars which would impact us by communicating with the team and deploying a separate environment using terraform scripts so this doesn't impact MARS testing.

### PROFESSIONAL CERTIFICATION

Aug 2020 — Present Oracle Certified Java SE 8 Associate

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### UNIVERSITY ACHIEVEMENTS

- Simulation for a waste disposal system in a smart city

- System Design Project Which involved designing and build a robot using Lego and some electronic boards provided which was capable of playing football with other Lego robots
- As part of one of our courses I designed a compiler for a subset of C in Java.
- Indoor Localization prototype as part of a module for IOT.
- Data Science Project which was a group project where we had to analyze the market using 2 year data for 121 stocks in the US market that we retrieved using Bloomberg query language and perform clustering
- Co-Founded Edinburgh University Snooker and Pool Club