

Hamza Bin Khalid

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<https://hamzabinkhalid.github.io/portfolio/>

Personal statement

A Software Engineer with experience of building scalable and robust applications at Barclays.

Adept at using core programming languages like Java and C/C++ to produce clean code. Well-organized and collaborative team player with strong communication and analytical abilities.

I am passionate about continuously improving my programming abilities and keeping up-to-date with the latest industry trends and technologies. Sharing my knowledge and passion with others. Able to handle and learn new technology within very short span of time.

Actively looking for a Software Engineer/Developer position to advance my career while utilizing my skills.

Skills

- **Programming languages:** Object Oriented Programming using Java and C/C++, Android, SQL, Neo4j, HTML, CSS, JavaScript, Python, Typescript, XML, JSON
- **Libraries, tools, and frameworks:** Spring Framework, Jenkins, AWS Cloud-Based Services, aPaaS OpenShift, ELK Stack, SonarQube, Veracode, AppDynamics, Karate, Git, Bitbucket, Junit Testing, Nexus, Maven, HTML5, CSS3, Bootstrap, Apache Kafka, Mockito, Docker, OpenAPI Specification (OAS), Swagger, Flask, DeepLearning,Slf4, Log4j, Filebeat, Jira and Confluence
- **Databases:** Kafka, Aerospike, NoSql, MySQL, Neo4j, MongoDB and pgAdmin
- **Operating systems and environments:** Eclipse, IntelliJ, Visual Studio Code, Apple macOS, Windows.
- Knowledge and working experience of Agile and Waterfall methodologies.
- Worked with Python, Deep Learning, Google Colaboratory.
- Strong leadership, communication, and collaboration skills.
- Skilled in critical thinking, logic, and math.

Professional Experience

Software Engineer, Barclays, Northampton, UK

(November 2022 – Present)

- **Built and maintained high-performance Applications for FML Germany Project based on design specifications using Agile methodology.**
 - ✓ Utilized technologies such as Java, Spring Framework, Kafka, Aerospike, Maven, Jenkins, aPaaS OpenShift, AWS and BitBucket.
 - ✓ Ensured code quality and modularity.
 - ✓ Applied fundamental best practises, and coding standards.
 - ✓ Participated in a daily standup meeting to discuss tasks, instructions and any blockers.
 - ✓ Independently finished tasks by updating work status through Jira.
 - ✓ Efficiently deployed configuration and integration of project services using AWS cloud-based services and OpenShift depending on requirements to improve continuous integration practises.
- **Maintained Continuous Integration and Deployment using Jenkins, aPaaS OpenShift and AWS.**
- **Onboarded applications onto and used SonarQube platform for continuous inspection of code quality to detect bugs and code smells and then fix them.**
- **Onboarded applications onto Veracode, then scanned and mitigated security vulnerabilities found.**
- **Used Swagger to generate OpenApi Specification(OAS) for an API.**
- **Analysed and compared old and new Data Dictionaries and identified gaps, conflicts, redundancies and inconsistencies and proposed changes and improvements.**
- **Added and tested HTTP Authentication Schemes for APIs, including TIAA and Basic Authentication.**
- **Designed and integrated Kafka-based messaging systems for real-time data streaming.**
- **Collaborated with cross-functional teams to gather requirements and define software specifications.**
- **Conducted code reviews and implemented performance tuning techniques.**
- **Integrated Kafka into microservices architecture, reducing data latency and improved scalability.**
- **Upgraded version of technologies being used by applications without breaking code functionality.**
- **Integrated ELK Stack for APIs to aggregate logs.**
- **Onboarded applications on AppDynamics for better performance monitoring.**
- **Supported QA to perform tests on API functionality using Karate testing.**
- **Fixed bugs and expanded capabilities of the microservices in the architecture.**
- **Created and maintained documentation to a high standard adhering to agile and audit requirements.**
- **Efficiently configured and deployed services in various environments, including Dev, UAT/SIT, and VPT using AWS, OpenShift and Jenkins CI/CD build pipeline tool.**

- **Developed, tested, and added Rule features for Profile and Feature builders.**
- **Wrote and tested Sense Verbs in Sense UI Tool.**
- **Added, removed, updated programming logic for Deserializing fields from the incoming transaction payload.**
- **Created new Key Helper Service API for Germany with new requirements and keys.**
- **Performed Application Readiness Checks on applications, ensuring they are deployed successfully to an environment.**
- **Used CSM safe to store common passwords for each service in each environment.**

Key achievements:

- Played a key role in creating APIs for a new region based on the business requirements received.
- Fairly contributed to a project starting from analysing requirements from a new Data Dictionary to implementing all the proposed changes in the application.
- Played an important role in adding rule features to Feature and Profile builders.

Education

University of Northampton

(2021 – 2023)

MSc. Computing

- Favourite area of study: Object Oriented Programming using Java.
- Favourite class: Databases.
- Extracurricular project: Built my portfolio page using HTML and CSS, a few other web applications like Simon Game, Drum Kit, Dice Game and Start-up Website and hosted them on GitHub.
Notable Modules – Visual Object Software (Java Programming) and Databases

University of Lahore

(2016 – 2020)

BSc. (Honours) Computer Science, 3.55/4 CGPA

- Favourite area of study: Mobile Application Development and Machine Learning
- Favourite class: Java Software Development Paradigm
- Extracurricular project: Built an Android app to compare bitcoin rate from google and localbitcoins.com and to see if it is a profitable or not to trade
- Extracurricular project: Built a Tic Tac Toe and a Snake game using C++

Personal Projects

Portfolio Page, HTML/CSS/Bootstrap

<https://hamzabinkhalid.github.io/portfolio/>

A Start-up Page, HTML/CSS/Bootstrap

<https://hamzabinkhalid.github.io/startup-website/>

The Dice Game, JavaScript/Dom Manipulation

<https://hamzabinkhalid.github.io/the-dice-game/>

Drum Kit Game, JavaScript/Advanced Dom Manipulation

<https://hamzabinkhalid.github.io/drum-kit-game/>

Simon Game, JavaScript/JQuery

<https://hamzabinkhalid.github.io/simon-game/>

References

Can be provided upon request.