Abderrahmane Kotbi
Software Engineer

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As a proficient Java developer with a deep interest in AI and open-source, I blend technical expertise with innovative thinking to deliver effective and creative solutions for diverse software development projects. My passion for learning and problem-solving fuels my commitment to excellence in all my professional endeavors.

💼 Professional Experiences

Software development engineer at Amazon Web Services (AWS), Rabat   July 2022 – Present

› Optimized I/O operations in the modernization of Z/OS framework utilities (ICETOOL, INFUTILB, ICEGENER) using Java's RandomAccessFile methods. Implemented a cache system for SQL queries, improving processing efficiency for bulk data loads exceeding 40GB.

› Led a five-member team to develop a refactoring framework that overcomes the limitations of the BluAge refactoring tool. The framework, which relies on the ANTLR framework for JCL data extraction, uses optimized algorithms, includes comprehensive Javadoc documentation with JUnit unit tests, and integrates seamlessly with an existing Jenkins pipeline for bulk refactoring of Java code based on its JCL equivalent.

› Played a pivotal role in migrating legacy applications to cloud-native solutions leveraging AWS BluAge. Enhanced the efficiency and agility of the modernized applications by implementing multithreaded code, utilizing prepared PL/SQL procedures, and using and customizing the G1GC Java garbage collector.

› Enhanced the AWS BluAge Velocity framework by incorporating new features for I/O operations on files, accommodating both fixed and variant record sizes. Optimized these operations using Java's RandomAccessFile methods. Addressed unusual encodings and charsets, improving data handling. Implemented comprehensive JUnit unit tests for these features and validated performance under heavy data loads up to 50GB.

› Worked collaboratively within the migration team, sharing insights and knowledge through technical lectures.

Intern at Amazon Web Services (AWS), Rabat   March 2022 – June 2022

› Contributed to the modernization of a legacy COBOL mainframe application to the Cloud using Spring Batch, focusing on optimizing job processes without disrupting traditional execution flows. 🔗 Report

Intern at Internationale university of Rabat (UIR), Rabat   June 2021 – September 2021

› Developed and deployed a web platform for managing and monitoring delegated urban transport contracts, using Microsoft PowerApps and PowerBI to centralize data, automate reports, and create interactive dashboards. 🔗 Report

Intern at Afnane Studio, Khémisset   Juin 2020 – Juillet 2020

› Created a web application to manage project descriptions, technical documents, and other project-related documents, using Java and Spring for the backend and Oracle for the database.

Open Source Contributions

› Enhanced the VSCode code snippets extension for Spring boot development by writing code to add support for lombok, a library that reduces boilerplate code. 🔗 GitHub Repository

› Contribution to the development of unit tests for the programming language One. Created a docker image deployed to a DockerHub repository to run these tests. Automated this process using GitHub Actions. 🔗 GitHub Repository

› Led the creation and oversight of the award-winning Darlkhir charity community, a project developed using React and Firebase. Conducted informative lectures, made significant contributions to the codebase, and guided a team committed to continuous innovation and enhancement of the project, all while upholding the principles of open-source and non-profitable charity. Successfully handed over the leadership reins to a new generation, securing the sustained expansion and influence of the community. 🔗 GitHub Repository, 🔗 Landing Page

♟ Certifications

› **AWS BluAge** Modernize black belt. 🔗 AWS Blu Insights

› **Google** Building Scalable Java Microservices with Spring Boot and Spring Cloud. 🔗 coursera.org

› **EF Standard English Test (EF SET)** EF SET English Certificate 73/100 (C2 Proficient). 🔗 efset.org

🏛 Education

› **National School of Computer Science and Systems Analysis, Rabat** 🔗 ENSIAS   2019 – 2022

› **Scientific preparatory classes, Ibn Tahir Center, Errachidia** 🔗 CPGE MPSI/MP   2017 – 2019

🌐 Languages

› **English** Professional proficiency.   › **French** Professional proficiency.   › **Arabic** Professional proficiency.