Abdulrahman Isegen

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My LinkedIn | My GitHub | My Website

WORK EXPERIENCE

Amazon Audible | Software Development Intern   **January 2022 – March 2022**
- Designed blueprint and planned structure for refresh of Audible app and tools, migrating from older Secure Socket Layer (SSL) system to Transport Layer Security (TLS) System to *improve privacy*, data integrity, and *security for users*.
- Implemented testing strategies for new and existing code at Audible's infrastructure including *unit tests* and *performance tests* to ensure the high quality and robustness of systems and services, utilizing *JUnit* and *Java*.
- Built back-end code for various purposes including data processing, storage, caching, and retrieval; used techniques including *object-oriented programming*, *design patterns*, and *distributed systems*.

Northeastern University | Graduate Teaching Assistant   **May 2021– December 2022**
- Improved *Java programming skills* while serving as a Graduate Teaching Assistant, *guiding 200+ students* through coursework via interactive lab sessions, office hours, and practical assignments, facilitating hands-on learning and practical application of knowledge.
- Enhanced technical and instructional capabilities by *delivering constructive feedback*, crafting engaging lab activities, *code reviews,* and meticulously grading assignments and exams, honing proficiency in technical assessment and encouraging an environment of effective knowledge transfer.

Exxon Mobil | Information Technology Intern   **June 2018 – August 2018**
- Detected issues causing random crashes that reduced employee efficiency; designed and *implemented solutions* leading to employees finishing tasks *30% faster*.
- Drove continuous improvements for mobile and desktop tools including several in-house applications (*.Net*, *Java*, *SQL*).

TECHNICAL PROJECT

Distributed Chat App
- Configured a chat application enabling users to exchange text messages of diverse lengths, targeting both individual recipients and user groups. Orchestrated through the *Java SWING* framework for an intuitive front-end experience. The application's backend was strategically engineered using a combination of frameworks, harnessing *advanced distributed functionalities* such as time/clock synchronization, *distributed database management*, group communication, and peer-to-peer networks. Utilizing *relational database* for storing text messages.

Language learning Mobile App
- Implemented an innovative in-app level tracking and progression system, empowering users to advance through various skill levels. Offered a personalized experience by integrating language preferences and an audio mode feature. Leveraged *Java* and *Firebase technologies* to enhance user engagement and interactivity.

Twitter clone Web App
- Engineered a dynamic Twitter-inspired web, Employed *MongoDB* to proficiently manage real-time user-generated content, encompassing recent tweets, user profiles, and comprehensive tweet metrics using *REST APIs*. Developed utilizing *React*, *HTML*, *TypeScript*, *JavaScript*, *jQuery*, *CSS*, and *Node.js*, showcasing a comprehensive skill set in full-stack application development.

Image Processing App
- Developed an image processing application allowing users to import images and then apply a diverse array of transformations, like blurring, mosaicking, and precise color palette restriction. Depicted through an intuitive *JavaFX* graphical user interface, demonstrating proficiency in innovative *Java-based visual software development*.

Automatic Classroom Attendance System
- Constructed a resourceful solution employing a Single-Shot Detector with *Python* to capture classroom imagery, promptly recognizing students via pre-trained *Machine Learning* (ML) models. Empowered educators with a web-based application facilitating seamless report generation from the *Artificial Intelligence* (AI) scan.

EDUCATION

Northeastern University
Master of Science in Computer Science   **May 2023**
GPA**: 3.7/4.0**
Relevant Courses: Programming Design Paradigm, *Web Development*, *Mobile Development*, Database Management Systems, Algorithms, *Scalable Distributed Systems*, Software Engineering, *Cloud Computing*

Purdue University
Bachelor of Science in Computer Engineering   **May 2020**

SKILLS

Deep Learning, UI / UX, Project Management, *Agile training*, Scrum master training, *Docker*

Certifications/Trainings: *AWS* Academy Graduate - AWS Academy Cloud Architecting, *Kubernetes*

Technologies: IntelliJ, Android Studio, Express.js, *Jira*, Visual Studio, MySQL, PostgreSQL, XML, Linux, *Git*, *CI/CD*, C#, Kotlin