

Ekisa Rodney Simon

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University Education

2024 – Date: MSc. Software Engineering, Heriot-Watt University, Edinburgh

I am currently pursuing this degree which is helping me build upon my bachelor's degree and experience gained within software design and development. I have so far taken part in school projects involving practical labs as well as multi-disciplinary team design projects.

Relevant Areas of Study include:

- Human Computer Interaction
- User Interface Design
- Distributed and Parallel Technologies
- Advanced Software Engineering
- Big Data Management

2015 – 2020: BSc. Software Engineering, Makerere University, Uganda

The content of my programme provided an in-depth study of the theoretical and practical aspects of Software Engineering.

Relevant Areas of Study include:

- Problem solving and Programming concepts
- Data & Information Management
- Data Structures and Algorithms
- Object Oriented analysis and design
- Software Architecture
- Advanced Object-Oriented Programming
- User Interface Design

High School Education

2013 – 2014: Seeta High School, Uganda

Awarded Uganda Advanced Certificate of Education (U.A.C.E) Certificate
Mathematics (A), Physics (B), Computer Studies (A)

2009 – 2012: Uganda Martyr's Secondary School, Uganda

Awarded Uganda Certificate of Education (U.C.E) Certificate

Relevant Experience

August 2019 – January 2024: Software Development Team Leader IICS Technologies, Uganda

Leader of a diverse team comprising of 8 developers from multiple countries and 2 UI/UX developers responsible for designing and implementing a computer-based health information system to support hospital operations in the public sector in Uganda.

Spearheaded the development of web applications and RESTful APIs in the health domain using Java 11 and Spring Boot, focusing on scalable, microservices-based architecture with a mix of both SQL (Postgres) and NoSQL (MongoDB) data stores for the back ends and React for the front end with React native for mobile applications.

Created and managed CI/CD pipelines using Jenkins, ensuring efficient deployment processes.

Led the team in deploying and managing containerized applications using Micro-Kubernetes and Docker, enhancing software scalability and reliability.

Implemented security protocols using Spring Security and OAuth2, ensuring secure authentication and authorization mechanisms.

Integrated third party applications from external providers into web applications like Fingerprint authentication and face recognitions.

Utilized RabbitMQ for reliable messaging solutions and Elasticsearch for search functionalities in web applications.

Further Experience

Freelance Software Developer for DHL International Uganda, Game Stores Uganda, CEVA Logistics Uganda and DHL Global Forwarding Uganda

Developed middleware using Spring Boot and packaged as a Windows Service, connecting DHL International Uganda, Game Stores, CEVA Logistics Uganda and DHL Global Forwarding Uganda, invoicing systems to Uganda Revenue Authority EFRIS Systems to enable real time fiscalizing of invoices before they are given to customers.

Relevant Skills Highlight

- Java
- React and React Native
- SQL and NoSQL
- Micro Kubernetes and Docker
- Git
- Jenkins