

# Mark Akampurira Rugumambaju

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## Senior .NET / Backend / Full Stack Developer

Fullstack .NET software engineer with more than 4 years experience developing software solutions. Proven track record in building scalable, secure mobile payments and banking systems. Expertise in the Agile Software Development Lifecycle (SDLC) across the requirements, design, development, testing, and implementation phases successfully navigating complex technical and functional requirements to effectively architect and develop global software solutions.

### TECHNICAL PROFICIENCIES

**Software Engineering • Agile Methodology • Backend Development • Technical & Functional Requirements • Machine Learning/ Artificial Intelligence**

**.Net Core • C# • Angular • Go • Php • Azure • Microsoft SQL Server • Git • Message Queueing • Caching • Jira • Bitbucket • Docker • Api • Technical documentation**

### PROFESSIONAL EXPERIENCE

#### Remote Full-Stack Software Developer(2021 - Present)

Televic Education, Izegem, Belgium

- Revamped assessmentQ with new analysis, scheduling, notification and reporting modules using agile software development lifecycle with automated testing overhauling legacy code catalysing transformation to a web system.
- Influenced migration from a sql instance to mongodb for the data warehouse attaining efficiency in report queries .
- Developed tool to migrate and convert data from SQL database to MongoDB warehouse reducing query load by 25% and improving user experience for reporting and analysis modules.
- Scaled internal services through a restructure into Azure and cloud managed services increasing system uptime.
- Collaborated with team of 6 to successfully migrate Edumatic from a legacy flash desktop application to .NetCore C# Angular application restructuring code for maintainability and improving user experience on the application.
- Optimised reporting and analysis module backend queries boosting performance by 25%.

#### Mid-Senior Level Developer (2018 - 2020)

Pegasus Technologies Ltd, Kampala, Uganda

- Designed, developed and documented architectures to PCI compliant API systems that support seamless integrations of payments and remittances with real-time liquidation into bank accounts.
- Integrated banking systems with telecoms' mobile payments systems to support merchant and utility payments, Value Added Services like airtime increasing transactional revenues while simplifying access to services.
- Improved bulk sms system sending rate to 4000 from 200 sms per minute, resolved sms duplicates being sent out and investigated and eliminated deadlocks and timeouts on the sql database used by the same system.
- Redesigned the MTN Uganda Extra float system architecture increasing successful transaction volume and value by 500%.
- Managed cross functional team of 4 mentoring juniors ranging from developers to product designers guiding smooth collaboration to develop a billing and collections system for ministry of local government taxes.

#### Software Developer (2018 - 2019)

Makerere University, Kampala, Uganda

- Designed and created prototype to a sign language interpretation system that enables communication between the deaf and the sign language illiterates by translating signs to text and audio by camera in python.
- Collected, cleaned and trained a machine learning model based on video data authoring a rest api to access the translation service.

#### Software Developer (2017 - 2018)

Urise Health Informatics Foundation, Kampala, Uganda

- As part of a cross-functional team of three intern developers, authored technical documentation and implemented a health records database to aggregate health records history for patients adapted by more than 50 clinics.
- Revamped the organisation website with inquiry management introducing faster response to potential customer inquiries.

### EDUCATION

**Bachelor of Science in Software Engineering, Makerere University, Uganda (2019)(First Class Honors)**