

SAMUEL IZEBIZUA

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OBJECTIVE

Software Engineer with hands-on experience in full-stack development, cloud infrastructure, and AI/robotics. Passionate about building scalable systems and intelligent solutions. Seeking to contribute to innovative teams driving impact in AI, robotics, or cloud-native applications.

EDUCATION

University of Hertfordshire MSc. Artificial Intelligence and Robotics	Jan. 2025 - Feb. 2027 Hatfield, United Kingdom
Babcock University BSc. Computer Science	Aug. 2019 - Jun. 2023 (GPA: 4.38) Ogun, Nigeria

SKILLS

Languages: Python, JavaScript/TypeScript, R
Frontend: React, Next.js, HTML/CSS, Tailwind CSS
Backend: Node.js, Express.js, REST APIs, Socket.IO
Cloud & DevOps: AWS, Azure, Docker
AI & ML Tools: Scikit-learn, OpenCV, Webots, ROS (learning)
Databases: MongoDB, MySQL, SQL Server
Other Tools: Git, Linux, Matomo, Google Analytics

EXPERIENCE

SOFTWARE ENGINEER <i>UNIVERSITY OF HERTFORDSHIRE — STRIDE</i>	Jun. 2025 - Current <i>Fulltime</i>
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- Developing software for humanoid robots in the RoboCup tournament
- Developing perception and navigation systems using Python, OpenCV, and Webots.
- Implemented real-time object detection to enhance autonomous robotic interactions.

SOFTWARE DEVELOPER <i>HOMIEE — Product & Analytics Team</i>	Aug. 2024 - Jan. 2025 <i>Remote Contract</i>
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- Built 50+ event trackers for user conversions, boosting marketing attribution accuracy by 40%.
- Migrated systems to AWS EC2, increasing platform uptime by 25%.
- Delivered a React/Node.js dashboard for real-time KPI visibility, enabling proactive business decisions.

SOFTWARE DEVELOPER <i>ZERCOM SYSTEMS</i>	Jan. 2024 - Aug. 2024 <i>Fulltime</i>
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- Built a content marketplace plugin for Tangerine365 (LMS) used by 1,000+ users.
- Refactored 50+ stored procedures for PHP 8.x compatibility, cutting SQL query times by 40%.

PROJECTS

AWS Events Notification System	Lambda, API Gateway, SNS
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- Developed a CRUD event service with SNS-triggered notifications; reduced dev time by 70%.
- IAM-secured API endpoints with optimized Lambda cold starts (less than 500ms).

Disease Prediction System	Python, React, AWS, Docker
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- Built ML inference pipeline using Scikit-learn; reduced model response latency by 40%.
- Managed 500+ monthly health diagnostics with intuitive React frontend.

Image Quantization

R, k-means Clustering, Machine Learning

- Implemented image pre-processing via **k-means clustering** to reduce color complexity.
- Optimized storage requirements while maintaining 90%+ visual fidelity.

Networked Project Management System

MERN Stack, Socket.IO

Dissertation Research & Implementation

- Developed a real-time group collaboration tool used by 100+ university students.
- Designed RESTful APIs with **Node.js/Express** and MongoDB Atlas.
- Enabled live updates and progress tracking via WebSockets.

MaiBoard (Open-Source Task Manager)

Next.js, Tailwind CSS, TypeScript

- Created a drag-and-drop task board for improved user workflows.
- Integrated with AWS notification system for real-time updates.

CERTIFICATIONS

- AWS Certified Cloud Practitioner — [Credential](#)
- Python For Data Science (IBM) — [Credential](#)
- Google Analytics Certifications (SkillShop) — [Credential](#)