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## SIBENDIRE JOSHUA

Full Stack Software Engineer

📍 Mengo, Kampala – Uganda | ☎ +256 784 143 273

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🌐 [LinkedIn](#) | [GitHub](#)

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### Professional Profile

A results-driven Full Stack Software Engineer with over four years of experience designing and delivering scalable, secure, and high-performing software solutions. Proficient in Java (Spring Boot) and React, with extensive expertise in system architecture, database optimization, and RESTful API development. Skilled in leading development teams, managing Agile workflows, and implementing digital transformation initiatives across education, healthcare, and agritech sectors. Passionate about applying technology to drive national impact.

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### Core Competencies

- **Programming Languages:** Java, JavaScript, PHP
  - **Frameworks:** Spring Boot, Hibernate, React, FastAPI, Thymeleaf
  - **Frontend:** HTML5, CSS3, Bootstrap, TypeScript, jQuery
  - **Databases:** MySQL, PostgreSQL, MongoDB, MariaDB, Cassandra
  - **Tools & Platforms:** Git, Docker, Jenkins, IntelliJ IDEA, Android Studio, VS Code
  - **Architectural Patterns:** REST APIs, MVC, SOA, Microservices
  - **Methodologies:** Agile/SCRUM, CI/CD, Test-Driven Development (TDD)
  - **Testing Frameworks:** JUnit, Mockito
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## **Professional Experience**

### **Software Engineer – Comprehensive School Management System, Kampala, Uganda**

*Jan 2023 – Present*

- Designed and implemented a school management system adopted by multiple institutions, enhancing data accuracy and digital record-keeping aligned with national education digitization goals.
- Developed core modules including secure authentication, role-based access, academic reporting, admissions, and fee management.
- Optimized database performance by migrating from MySQL to Cassandra, achieving a 70% improvement.
- Led a 10-member development team, managing sprints, code reviews, and stakeholder communication.
- **Tech Stack:** Java, Spring Boot, Thymeleaf, MySQL, Bootstrap, Docker, Jenkins

### **Software Developer (Remote) – OpenMRS, Kampala, Uganda**

*Apr 2022 – Present*

- Contributed to the OpenMRS open-source health records system used globally, supporting digital healthcare record management initiatives.
- Designed and deployed Java-based modules to enhance scalability and reliability.
- Collaborated in Agile teams to deliver secure, high-quality healthcare technology solutions.

### **Software Engineer – Agropreneur Digital MARKET, Kampala, Uganda**

*Jun 2021 – Dec 2022*

- Developed a digital agricultural marketplace connecting farmers directly to buyers, contributing to rural digital inclusion.
- Built interactive dashboards and optimized SQL queries, reducing backend response time.
- Automated notification systems and cost-calculation algorithms for improved user experience.
- **Tech Stack:** PHP, JavaScript, Bootstrap, MariaDB

## **Project Supervisor (Volunteer) – World Vision Uganda, Bundibugyo**

*Aug 2020 – May 2021*

- Oversaw community-based ICT and development projects, supporting local ICT adoption and digital literacy initiatives.
- Facilitated capacity-building workshops and monitored KPIs.
- Strengthened collaboration between local leaders, beneficiaries, and project stakeholders.

## **Computer Science Teacher – Uphill Progressive Secondary School, Ntoroko, Uganda**

*2019 – 2020*

- Taught Computer Science and ICT to secondary students, promoting early ICT skills development.
- Installed and maintained LAN infrastructure and school software systems.

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## **Selected Projects**

### **License-Based School Management System (Online & Offline Activation)**

- Implemented an offline and online licensing mechanism using HMAC digital signatures to secure software installations.
- Integrated spring interceptors to validate license status before access.
- **Tech Stack:** Java, Spring Boot, Thymeleaf, JSON

### **Bookshop Management Desktop Application**

- Developed a JavaFX-based desktop application for managing sales, stock, and reporting.
  - Packaged as a Windows installer using Launch4j for simplified deployment.
  - **Tech Stack:** JavaFX, SQLite, Launch4j
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## **Education**

**Bachelor of Information Technology** – St. Lawrence University, Kampala, Uganda (2018 – 2022)

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## **Certifications**

- Java Intermediate Certification – Sololearn (January 2024)
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## **Additional Information**

- Open to both on-site and remote opportunities
  - Strong leadership, communication, and stakeholder engagement skills
  - Experienced in multi-disciplinary collaboration and technical mentorship
  - Committed to advancing national ICT infrastructure, digital inclusion, and e-governance initiatives
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## Attachments



**STATEMENT OF RESULTS**

<b>NAME:</b>	SIBENDIRE JOSHUA	<b>REG NO:</b>	BAIT/18D/U/A0587	<b>GENDER:</b>	M	
<b>PROGRAMME:</b>	BACHELOR OF INFORMATION TECHNOLOGY	<b>NATIONALITY:</b>	UGANDAN	<b>BIRTH DATE:</b>	12/06/1995	
<b>FACULTY:</b>	Faculty of Science and Technology					

YEAR 1 :: ACADEMIC YEAR 2018/2019			
Year 1 Semester 1	CU	GRD	GPT
BABA 1103 Communication Skills	3.0	50 D	2.0
BAIT 1102 Information Systems	3.0	64 C	3.0
BAIT 1103 Professional Communication for IT Managers	3.0	73 B	4.0
BAIT 1104 Principles of Programming in C	3.0	52 D	2.0
BAIT 1106 Communication Technology & Internet	3.0	75 B+	4.5
BAIT 1107 Kiswahili	3.0	56 D+	2.5
BAIT 1205 Basic Management Skills	3.0	60 C	3.0
BAIT1105 Internet and web page authoring	3.0	64 C	3.0
<b>GPA: 3.00</b>			

YEAR 2 :: ACADEMIC YEAR 2019/2020			
Year 2 Semester 1	CU	GRD	GPT
BAIT 2101 Object Oriented Programming in C++	3.0	70 B	4.0
BAIT 2106 Web Scripting Using PHP	3.0	70 B	4.0
BAIT 2203 Research Methodology	3.0	72 B	4.0
BAIT 2205 Database Planning Management and Design	3.0	76 B+	4.5
BAIT2102 Data Communication and Networking	3.0	56 D+	2.5
BEEM 2101 Entrepreneurship development 1	3.0	74 B	4.0
<b>GPA: 3.83</b>			

YEAR 3 :: ACADEMIC YEAR 2020/2021			
Year 3 Semester 1	CU	GRD	GPT
BAIT 3103 Application development with VB	3.0	65 C+	3.5
BAIT 3104 Object Oriented Programming in Java	3.0	60 C	3.0
BAIT 3106 IT Project Planning and Management	3.0	80 A	5.0
BAIT 3109 Cloud Computing	3.0	66 C+	3.5
BAIT 3201 Information & Network Security	3.0	80 A	5.0
BAIT2205 Database Programming	3.0	75 B+	4.5
<b>GPA: 4.08</b>			

YEAR 1 : ACADEMIC YEAR 2018/2019			
Year 1 Semester 2	CU	GRD	GPT
BAIT 1202 Computer Programming in C#	3.0	67 C+	3.5
BAIT 1204 Computer Organisation and Architecture	3.0	62 C	3.0
BAIT 1208 Data Structures and Algorithms	3.0	65 C+	3.5
BAIT 1214 Database Management	3.0	71 B	4.0
BIT 1206 Electronic Business	3.0	59 D+	2.5
BIT 1211 Computer Ethics & Law	3.0	84 A	5.0
<b>GPA: 3.58</b>			

YEAR 2 : ACADEMIC YEAR 2019/2020			
Year 2 Semester 2	CU	GRD	GPT
BAIT 1105 Systems Administration	3.0	53 D	2.0
BAIT 2201 Operating Systems	3.0	71 B	4.0
BAIT 2202 Systems Analysis and Design	3.0	72 B	4.0
BAIT 2219 Advanced Mobile Application Development	3.0	59 D+	2.5
BAIT 3108 Network Administration and Configuration	3.0	66 C+	3.5
BAIT2201 Industrial Training	3.0	72 B	4.0
BAIT2206 Statistical Data analysis	3.0	63 C	3.0
<b>GPA: 3.29</b>			

YEAR 3 : ACADEMIC YEAR 2020/2021			
Year 3 Semester 2	CU	GRD	GPT
BAIT 3102 User Interface Design	3.0	57 D+	2.5
BAIT 3202 Business Intelligence & Data Warehousing	3.0	62 C	3.0
BAIT 3204 Research Report	3.0	78 B+	4.5
BAIT 3205 Software Engineering	3.0	71 B	4.0
BAIT 3211 Parallel & Distributed Systems	3.0	67 C+	3.5
<b>GPA: 3.50</b>			


  

<b>CUMMULATIVE GRADE POINT AVERAGE (CGPA):</b>	3.51	<b>PROVISIONAL CLASS OF AWARD:</b>	SECOND CLASS HONOURS (LOWER DIVISION)
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The length of a semester is seventeen (17) weeks, two (2) of which are for examination.  
 The medium of instruction ENGLISH

see overleaf for details



**A 2199843**  **NOV/DEC 2017 U.A.C.E.**

**EXAMINATION FOR THE UGANDA ADVANCED CERTIFICATE OF EDUCATION**

**SIBENDIRE JOSHUA** **U0475/506**

**KARAMBI SECONDARY SCHOOL**

**ENTRY CODE: 5** **DATE OF BIRTH: 12/06/1995**

**GENERAL PAPER** **FAIL**

**HISTORY** **PRINCIPAL PASS**

**CHRISTIAN REL.** **PRINCIPAL PASS**


**GEOGRAPHY** **SUBSIDIARY PASS**

**SUBSIDIARY COMPUTER** **SUBSIDIARY PASS**

**\*\*\* U.A.C.E. RESULTS \*\*\***

Subject	Paper Grades					
	1	2	3	4	5	6
7						
E			4			7
C	2	4		4		
0	8	4	7			
6						

*Please see overleaf*

**0 4317665**  **2015 U.C.E.**

**EXAMINATION FOR THE UGANDA CERTIFICATE OF EDUCATION**

**SIBENDIRE JOSHUA** **U1981/019**

**RWENZORI CHRISTIAN VOC. SECONDARY SCHOOL P.O.BOX 381 KASESE**

**ENTRY CODE: 1** **DATE OF BIRTH: 12/06/1995**

1 ENGLISH	8 (EIGHT)
2 CHRISTIAN RELIG ED	3 (THREE)
2 HISTORY	6 (SIX)
2 GEOGRAPHY	6 (SIX)
4 MATHEMATICS	7 (SEVEN)
5 AGRICULT PRINC & PRAC	6 (SIX)
5 PHYSICS	9 (NINE)
5 CHEMISTRY	8 (EIGHT)
5 BIOLOGY	9 (NINE)

**GRADE AGGREGATE 53** **\*\*\* RESULT 3 \*\*\***

**1.** *Please see overleaf*