

## **NABUUMA SARAH**

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**Mobile:** +256 760156635

**GitHub:** <https://github.com/licklebandit>

**Portfolio:** <https://nabuumasarahportfolio.vercel.app/>

**Location:** Gayaza-Wakiso, Uganda

## **PROFESSIONAL PROFILE**

Results-driven Software Engineer with extensive experience in full-stack development and IT support. Proven track record in building and deploying functional web applications using modern JavaScript frameworks, with strong expertise in both frontend and backend development. Demonstrated ability to provide technical support, manage systems, and deliver high-quality software solutions. Currently completing a Bachelor's degree in Software Engineering with hands-on experience in database management, system troubleshooting, and collaborative development.

## **EDUCATION**

### **Bachelor of Science in Software Engineering**

Bugema University | 2023 - 2025 (Awaiting Graduation)

*Relevant Coursework: Software Development, Database Systems, Web Technologies, System Analysis & Design, Data Structures & Algorithms*

### **Uganda Advanced Certificate of Education (UACE)**

Bombo Senior Secondary School | 2021 - 2022

### **Uganda Certificate of Education (UCE)**

Light College Katikamu | 2016 – 2019

### **Primary Leaving Examination (PLE)**

St Francis Primary School | 2009 – 2015

## TECHNICAL SKILLS

### Programming & Development

- **Languages:** JavaScript (ES6+), HTML5, CSS3, SQL
- **Frontend:** React.js, Next.js, Responsive Web Design, UI/UX Implementation
- **Backend:** Node.js, Express.js, RESTful API Development, Server-side Logic
- **Database:** MongoDB, Database Design, Query Optimization
- **Version Control:** Git, GitHub (Repository Management, Collaboration)
- **Deployment:** Vercel (Frontend), Render (Backend), CI/CD Pipelines

### IT Support & Systems

- Microsoft Office Suite (Excel, Word, PowerPoint)
- System Troubleshooting & Diagnostics
- Technical Documentation
- Digital Records Management
- Google Workspace (Sheets, Forms, Docs)
- Hardware & Software Support

### Development Tools & Practices

- VS Code, Postman, MongoDB Compass and Atlas
- Agile Development Methodologies
- Code Documentation & Testing
- Problem-solving & Debugging
- Software Maintenance & Updates

## PROFESSIONAL EXPERIENCE

### IT Support Personnel

*Bugema University / May 2023 - Present*

- Provide comprehensive technical support to faculty and staff, resolving hardware and software issues.
- Manage and maintain digital records and databases, ensuring data integrity and accessibility.
- Coordinate IT team members to streamline support operations and improve response times.
- Perform data entry, verification, and validation while maintaining strict confidentiality standards.
- Conduct system diagnostics and troubleshooting to ensure optimal system reliability.
- Create and maintain technical documentation for IT procedures and user guides.
- Assist in the implementation and maintenance of university information systems.

## SOFTWARE DEVELOPMENT PROJECTS

### **An AI-powered chatbot for Bugema University. (BUchatbot)**

Technologies: React.js, Node.js, Express.js, MongoDB

- Developed a full stack AI-powered chatbot for the Bugema university to streamline student and staff inquiries, reducing information-seeking time.
- Integrated the Gemini API with a curated university knowledge base, ensuring 100% accurate, institutional approved responses.
- Built a secure admin management panel for authorized personnel to update the knowledge base and moderate chatbot interactions.
- Designed a scalable RESTFUL API backend and optimized MongoDB schemas, improving data retrieval efficiency.
- Deployed the application using modern CI/CD practices (frontend on Vercel, backend on Render).
- **Live Demo:** <https://bu-ch-atbot.vercel.app/> | **Repository:** [https://github.com/licklebandit/BU\\_chAtbot.git](https://github.com/licklebandit/BU_chAtbot.git)

## School management system

Technologies: React.js, Node.js, MongoDB

- Developed a comprehensive collaborative task and student management system for Light College Katikamu, centralizing administrative workflows.
- Implemented role-based access control (RBAC) system for staff, non-staff, administrators, securing sensitive data and permissions.
- Created an intuitive, responsive UI with real-time updated and data visualization dashboard for tracking academic and project progress.
- Architected and optimized full-stack features, enhancing data management efficiency and user collaboration.
- **Live Demo:** <https://light-college-katikamu.vercel.app/> | **Repository:** <https://github.com/licklebandit/Light-college-katikamu.git>

## E-commerce website (CRS)

Technologies: React.js, Express.js, MongoDB

- Built a secure full stack e-commerce website with a focus on user experience and administrative control.
- Implemented JWT-based authentication & authorization, ensuring secure user sessions and protected transaction pathways.
- Developed a robust admin panel for inventory, order, and user management, with validated form handling and error feedback.
- Optimized database queries and API endpoints, resulting in faster page loads and a smoother customer checkout flow.
- **Live Demo:** <https://don-do-low-uafz.vercel.app/> | **Repository:** <https://github.com/licklebandit/Don-do-low.git>

## CORE COMPETENCIES

- Full-Stack Web Development
- Software Design & Architecture
- Database Management & Optimization

- Technical Problem Solving
- System Maintenance & Support
- Team Collaboration & Communication
- Code Quality & Best Practices
- User-Centered Design
- Attention to Detail & Accuracy
- Time Management & Organization
- Adaptability in Dynamic Environments
- Confidentiality & Professional Ethics

## **CERTIFICATIONS & TRAINING**

- Software Engineering Fundamentals - Bugema University
- Web Development Best Practices - Online Coursework
- Database Design & Management - Academic Training
- IT Support Fundamentals - On-the-job Training

## **PERSONAL DATA**

- **Gender:** Female
- **Date of Birth:** 25th July 2003
- **Nationality:** Ugandan
- **Marital Status:** Single
- **Languages:** English (Fluent), Luganda (Fluent)

## **REFERENCES**

### **Mr. Tibenda Seth**

Head of IT Support, Bugema University  
Mobile: +256 772 517374

### **Mr. Migadde Canaan**

IT Support Supervisor, Bugema University  
Mobile: +256 784 845785

## **DECLARATION**

I, Nabuuma Sarah, declare that the information provided above is true and correct to the best of my knowledge and belief.

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_