

Scovia Katusabe

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Objective:

As a skilled Software Developer, I specialize in designing, developing, and maintaining software applications. With a strong foundation in programming languages and extensive experience in building both front-end and back-end systems, I excel in addressing complex issues with efficient solutions. My attention to detail and robust problem-solving abilities ensure high-quality results. I am passionate about learning new technologies and staying current with industry trends. My collaborative approach and effective communication skills make me a valuable asset to any development team.

Technical Skills:

- **Programming Languages:** Python, JavaScript, TypeScript
- **Web Development:** HTML, CSS, Django, Node.js, React
- **Frameworks & Technologies:** Django, Node.js, React
- **Database Management:** SQLite, MongoDB, PostgreSQL
- **Version Control:** Git, GitHub
- **Testing & Deployment Tools:** Postman, Docker, GitHub Actions
- **Problem-Solving**
- **Methodologies:** Lean, Agile (Scrum, Kanban)

Soft Skills:

- Team work
- Customer care
- Effective Communication
- Problem-solving
- Adaptability
- Quick learner
- Critical thinking

Projects

1. Online Examination Monitoring System(Sept 2024 -Dec 2024)

- **Description:** Enhancing a comprehensive online examination system to manage and monitor exams, improve administrative efficiency, and provide a seamless user experience for both students and administrators. The system includes proctoring features, student notifications, and account management.
- **Role:**Full Stack Developer
- **User Interface Redesign:** Redesigned the UI to enhance usability and accessibility for both students and administrators, ensuring easy navigation and a user-friendly interface.
- **Admin Account Management:** Developed features for administrators to manage student accounts, including account creation, updates, and monitoring of student activity within the system.
- **Student Exam Participation:** Enabled students to register for and participate in exams, with a dedicated dashboard displaying exam schedules, notifications, and proctoring details.
- **Proctoring & Notifications:** Implemented proctoring features to monitor students during exams and integrated a notification system to inform students of upcoming exams, deadlines, and other important updates.
- **Backend Development:** Utilized **Node.js** and **NestJS** with **TypeScript** to build a scalable backend, ensuring secure account management and smooth handling of exam data and proctoring functionality.
- **Frontend Development:** Built the frontend using **React**, ensuring a responsive student dashboard that displays exam schedules, notifications, and real-time proctoring alerts.
- **Collaborative Development:** Worked as part of an Agile team, utilizing **Git** for version control and **Trello** for task management to coordinate development efforts.
- **Testing:** Used **Postman** for API testing to ensure the reliability of the system's backend endpoints.
- **Database:** Used **PostgreSQL** as the primary cloud database, ensuring reliable storage and efficient management of student, exam, and proctoring data.
- **Continuous Integration/Deployment (CI/CD):** Integrated **GitHub Actions** to automate the testing and deployment process, ensuring the code passes tests before being deployed to production, streamlining the development pipeline.
- **Technologies:** Node.js, NestJS, TypeScript, Prisma ORM, React, Git, Trello, Postman,Figma

2. Daystar Daycare management System(Mar2024 -May2024)

- **Description:** Developed a comprehensive software system to manage daycare operations, including baby and sitter registration, attendance tracking, and billing.
- **Role:** Full Stack Developer
- **Backend Development:** Designed and implemented the server-side logic using Python and Django.
- **Frontend Development:** Created responsive user interfaces with HTML, CSS, and JavaScript.
- **Database Management:** Structured and managed the SQL Server database to ensure efficient data storage and retrieval.
- **Feature Implementation:** Integrated functionalities for registration, attendance, and billing modules.
- **Testing & Debugging:** Conducted thorough testing to identify and resolve bugs, ensuring a seamless user experience.
- **Testing:** Used **Postman** for API testing to ensure the reliability of the system's backend endpoints.
- **Continuous Integration/Deployment (CI/CD):** Integrated **GitHub Actions** to automate the testing and deployment process, ensuring the code passes tests before being deployed to production, streamlining the development pipeline.
- **Technologies:** Python, Django, HTML, CSS, JavaScript, SQL Server

3. **Pharmacy Management System (May 2024 - May 2024)**

- **Description:** Built a system to manage pharmacy expenses, incomes, and inventory, providing detailed financial reports and inventory tracking.
- **Role:** Full Stack Developer
- **System Design:** Architected the overall system structure to handle financial and inventory data efficiently.
- **Backend Development:** Utilized Python and Django to develop robust backend services.
- **Frontend Development:** Developed intuitive user interfaces using HTML, CSS, and JavaScript for ease of use.
- **Database Integration:** Managed the SQL Server database to store and retrieve financial and inventory information.
- **Report Generation:** Implemented features for generating detailed financial and inventory reports.
- **User Authentication:** Developed secure authentication mechanisms to protect sensitive data.
- **Testing:** Used **Postman** for API testing to ensure the reliability of the system's backend endpoints.
- **Technologies:** Python, Django, HTML, CSS, JavaScript, SQL Server

4. **E-commerce Management System (June 2024 - June 2024)**

- **Description:** Created a software platform to handle product listings, customer orders, and payment processing for an online store.

- **Role:**Backend Developer
- **Product Management:** Developed modules for adding, updating, and managing product listings.
- **Order Processing:** Implemented efficient order handling and tracking mechanisms.
- **Payment Integration:** Integrated secure payment gateways to facilitate smooth transactions.
- **User Experience Enhancement:** Focused on optimizing the user interface for better navigation and usability.
- **Security Implementation:** Ensured data security and privacy through robust authentication and authorization protocols
- **Testing:** Used **Postman** for API testing to ensure the reliability of the system's backend endpoints.
- **Technologies:** Python, Django, HTML, CSS, JavaScript, SQL Server

5. Personal Finance Management System(July 2024-July 2024)

- **Description:** Developed a platform for users to efficiently track and manage their personal finances with dynamic visualizations and reports.
- **Role:** Full Stack Developer.
- **Dashboard Design:** Created an intuitive dashboard for users to monitor and visualize their financial status.
- **CRUD Functionality:** Developed full CRUD functionality, allowing users to create, view, update, and delete financial records such as expenses and income.
- **Continuous Integration/Deployment (CI/CD):** Integrated **GitHub Actions** to automate the testing and deployment process, ensuring the code passes tests before being deployed to production, streamlining the development pipeline.
- **Data Visualization:** Integrated data visualization libraries to generate interactive reports that highlight monthly, weekly, daily, and yearly financial trends.
- **Backend Development:** Built a scalable backend using **Node.js** with **MongoDB** as the cloud-based database for data storage.
- **Cloud Database:** Utilized **MongoDB** for the cloud storage of user data for managing financial records in the production environment, ensuring secure and reliable data management.
- **Technologies:** Node.js, MongoDB (cloud)), React, Git, Postman

6. MusicApp Management System(June 2024-June 2024)

- **Description:** Created an interactive dashboard for users to search and play music using Spotify and YouTube APIs, providing a comprehensive multimedia experience.
- **Role:**Full Stack Developer
- **API Integration:** Integrated Spotify API for music playback and YouTube Data API v3 for video streaming.

- **Search Functionality:** Developed dynamic search features allowing filtering by artist, genre, and country.
- **Playback Optimization:** Ensured smooth and responsive audio and video playback experiences.
- **Frontend Development:** Utilized HTML, CSS, and JavaScript to create an engaging user interface.
- **Backend Development:** Employed Django (Python) to handle server-side logic and API interactions.
- **Collaborative Development:** Participated in an Agile team environment, using Git for version control and Trello for task management.
- **Technologies:** Django (Python), Spotify API, YouTube Data API v3, HTML, CSS, JavaScript

Education

- **Certificate in Software Engineering with Python** , Refactory Academy
(Feb 2024 - July 2024)
- **Advanced Certificate in Software Engineering**, Refactory Academy
(July 2024 - Dec 2024)
- **Uganda Advanced Certificate of Education**, Wampeewo Ntakke Secondary School
(2021 - 2022)
- **Uganda Certificate of Education**, Treasure High School
(2016-2019)

Other Certificates

- **Certificate in Scientific Computing with Python**, FreeCodeCamp

Professional Experience

Clerk International University - *Intern (Sept 2024 - Dec 2024)*

- Collaborating on an online examination system to improve administrative efficiency and user experience.
- Engaging in UI redesign, account management, and implementing notifications for students.
- Utilizing Nest.js and React for development and employing Git for version control.

Elegant Interiors - *Shop Attendant (March 2023 - August 2023)*

- Assisted customers with product selection and inquiries.
- Managed inventory and maintained store organization.

- Handled sales transactions and provided excellent customer service.

God's Will Loan Company - Secretary (August 2023 - December 2023)

- Managed administrative tasks and maintained records.
- Coordinated communication between departments.
- Assisted in organizing meetings and preparing documentation.

Languages

- English
- Runyoro
- Rutooro
- Runyankole
- Luganda

References

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Partnerships and Placement-Lead-Groundbreaker Talents

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