Scovia Katusabe

Results-driven Software Developer with over 1 year of experience building web applications in the fintech and education sectors. Strong proficiency in Python (primary language), along with hands-on experience in Node.js, Nest.js, and PHP. Specialized in backend development with a focus on building RESTful APIs, optimizing databases, and implementing robust security measures. Proven track record of reducing system response times by 40% and boosting user engagement by 30% through strategic technical improvements. A collaborative team player experienced in Agile workflows, dedicated to delivering scalable and efficient software solutions.

CONTACT DETAILS

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Portfolio:katusabescovia.github.io/website
Kampala, Uganda

WORK EXPERIENCE

Zendawa, Remote — *DevOps Intern*

Kenya, Nairobi | Feb 2025 - June 2025

- Developed a telemedicine feature with appointment scheduling and M-Pesa payment integration.
- Implemented a video consultation feature for remote doctor-patient interaction using PeerJS; managed MYSQL database design.
- Built APIs with PHP (Laravel), optimized performance and security, and conducted PHPUnit testing.

Tech Skills: PHP, Laravel, MYSQL, API Development, DevOps, PHPUnit, Bootstrap

Clarke International University, Hybrid—Software Developer Intern

Uganda, Kampala | Sept 2024 - Dec 2024

- Led backend development of an Online Examination System using TypeScript and NestJS
- Implemented secure authentication real-time proctoring, and RESTful APIs
- Designed an optimized PostgreSQL database schema for improved performance
- Collaborated with cross-functional teams in an Agile environment, ensuring alignment and timely delivery of project milestones
- Achieved a 40% reduction in system response time through code optimization. significantly improving user experience

Tech Skills: TypeScript, NestJS, API Development, React, CSS

EDUCATION

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

PROJECTS

Online Examination Monitoring System, Full Stack Developer | Sept 2024 - Dec 2024 | (Live: Website)

- Developed a scalable system using NestJS and React, PostgreSQL
- Implemented security features, including authentication and data encryption
- Integrated real-time proctoring and student notification systems

TECHNOLOGIES

Backend: Python, NodeJS, ExpressJS, PHP (Laravel),NestJS

Data Tools: Excel, Google Sheets, Google Documents

Frontend: JavaScript, React, HTML, CSS, Bootstrap, Tailwind

Deployment Platform: Vercel, Netlify, Render, Python Anywhere, GitHub, and MongoDB Cloud

Databases: PostgreSQL, MySQL, SQL Server, MongoDB
Design Tool: Figma

ERP Systems: Odoo

DevOps & Tools: Docker, GitHub Actions(CI/CD),Git, Postman

Testing: Test-Driven Development (TDD), API Testing

Methodologies: Agile (Scrum, Kanban), Lean

Soft Skills: Team Collaboration, Effective Communication, Problem-Solving, Adaptability, Quick Learning Ability, Customer Service

AWARDS & CERTIFICATIONS

Scientific Computing with Python | FreeCodeCamp

- Enhanced system security and user experience, increasing user engagement by 30%

  Tech Skills: NestJS, TypeScript, Prisma ORM, React, Git, Trello, Postman, Figma, CSS

Daystar Daycare Management System, Full Stack Developer | Mar 2024-May 2024 | (Live: Website)

- Developed a comprehensive management system using Python/Django with Baby/Sitter registration
- Created automated attendance tracking and improved operational efficiency by 25%

  Tech Skills: Python, Django, HTML, CSS, JavaScript, SQL Server, Git, Postman, Figma, Bootstrap

Pharmacy Management System, Full Stack Developer | May 2024 | (Live: Website)

- Developed a complete inventory management system with real-time stock tracking.
- Implemented expense and income tracking and automated financial reporting
- Reduced inventory discrepancies by 40% through tracking improvements

  Tech Skills: Python, Django, HTML, CSS, JavaScript, SQL Server, Git, Postman, Bootstrap

E-commerce Management System, Backend Developer | June 2024

- Developed robust product management modules
- Implemented a secure order processing system
- Created a user authentication and authorization system
- Conducted thorough API testing using Postman

  Tech Skills: Python, Django, HTML, CSS, JavaScript, SQL Server, Git, Postman

Personal Finance Management System, Full Stack Developer | July 2024 | (Live: Website)

- Created an intuitive dashboard for financial tracking with data visualization
- Built a scalable backend with cloud database integration
- Enhanced user satisfaction by 30% through an intuitive design and data visualization features

  Tech Skills: Node.js, MongoDB (Cloud), Postman, Git, JavaScript, HTML, CSS

MusicApp Management System, Full Stack Developer | June 2024 | (Live: Website)

- Integrated Spotify API and YouTube Data API V3.
- Developed dynamic search functionality with multiple filtering options.
- Created a dynamic audio and video playback interface
- Implemented secure user authentication
- Increased user engagement by 20% through enhanced media playback feature and search capabilities

  Tech Skills: Python, Django, HTML, CSS, JavaScript, SQL Server, Git, Postman, Figma, Spotify API, YouTube Data API V3, Bootstrap

Certificate in JavaScript Programming | Alison

Interests: Artificial Intelligence, Cloud Computing Architecture and Solutions, Open Source Software Contribution

English: Fluent