RANSOME C. ENECHUKWU

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EDUCATION

Redeemer's University   Osun, Nigeria
Bachelor of Science in Computer Science

WORK EXPERIENCE

ipNX Nigeria   *Lagos, Nigeria*
Network Core & Service Delivery

- Oversaw the efficient delivery of services within the Network Core and Service Delivery Department.
- Replaced Modems, fixed downtime Issues, treated high loss Issues, and gave weekly survey reports.
- Played an essential role in ensuring the seamless functioning of essential network infrastructure.
- Optimized core network elements for maximum efficiency and performance.
- Work closely with cross-functional teams to ensure alignment between network optimization efforts and broader organizational objectives.

Bariansystems Limited   *Abuja, Nigeria*
Lead Software Developer

- Amplifying the website of various companies, by optimizing the speed, usability, and accessibility to widen the reach and engagement of the mobile audience.
- Participating in the design and architecture of software systems, ensuring scalability, reliability, and performance.
- Formalized a new customer portal which provided a self-service platform for better usability and user experience, which in turn reduced the amount of customer support tickets received by the company, and increased customer retention rates.
- Designing and maintaining databases, optimizing queries, and ensuring data integrity.
- Writing, testing, and debugging code using various programming languages, tools, and frameworks.

Binance Africa   *Lagos, Nigeria*
Binance Accelerator Program - Blockchain / Smart Contract Security

- Successfully implemented security measures resulting in enhanced resilience against potential threats to blockchain and smart contract projects.
- Participated in knowledge-sharing sessions and workshops to educate team members on the latest advancements in blockchain security.
- Worked closely with cross-functional teams to integrate secure coding practices into the development lifecycle, ensuring the integrity of blockchain projects.
- Actively contributed to the success of the Binance Accelerator Program by delivering high-quality security solutions and fostering a culture of innovation.

University of Lagos   *Lagos, Nigeria*
Assistant Learning Specialist

- Conducted assessments to identify students' learning strengths and weaknesses.
- Developed personalized learning plans and recommend accommodations based on students' needs.
- Provided individual or group coaching to help students improve study skills, time management, and organization.
- Collaborate with faculty and staff to implement accommodations and support services.

KylianErp   *Abuja, Nigeria*
Software Engineer

- Spearheaded the redesign and development of the company's official platform.
- Oversaw the creation of a new web application for partnering companies using cutting-edge tools such as React and Redux, with real time updates, thus enhancing the user experience.
- Staying updated on emerging technologies and industry trends, as well as conducting research and development to improve existing products or create new ones.
- Collaborating with cross-functional teams, such as product managers, designers, and other engineers, to ensure the successful development and deployment of softwares.

Truelandlord   *Abuja, Nigeria*
Frontend Developer

- Ensuring consistent functionality and appearance of web applications across multiple browsers, including older and less common ones, by addressing complex compatibility issues.
- Ensuring web applications are fully accessible to individuals with disabilities by implementing advanced accessibility standards (e.g., WCAG) and conducting thorough accessibility testing.
- Implementing responsive design and improving the overall user experience through the use of technologies such as HTML, CSS, JavaScript and Jquery
- Working closely with backend developers, designers, and other team members to achieve project goals and deliver a cohesive product.
- Collaborating with UI/UX designers to implement their designs while providing input on usability and design improvements.

Redeemer's University   *Osun, Nigeria*
Tutorial Coordinator

- Recruited, hired, trained, and supervised tutors to ensure they provided high-quality academic support.
- Developed tutoring schedules and match students with appropriate tutors based on subject matter and availability.
- Coordinated tutoring sessions and workshops, both in-person and online.

- Evaluated tutoring effectiveness and made adjustments to improve services.
- Maintain records of tutoring sessions and student progress.

Cypress Eye Centre   *Abuja, Nigeria*
Graphic Designer & Social Media Manager

- Assisted in the creation and development of visual content for digital and print materials, ensuring brand consistency.
- Contributed to the ideation and execution of marketing campaigns, producing engaging designs for online and offline channels.
- Collaborated with the marketing team to understand project goals and target audience, tailoring designs to meet specific objectives.
- Gained proficiency in design software and consistently incorporated industry trends to enhance the visual appeal of projects.
- Played a key role in maintaining and organizing the digital asset library, ensuring easy access for the creative team.

Urban Luximos   *Lagos, Nigeria*
Backend Developer

- Developed and maintained complex database structures, optimized database queries, and ensured data integrity for high-performance applications.
- Implemented indexing strategies, query optimization, and database normalization techniques to enhance application speed and efficiency.
- Built RESTful APIs, integrated third-party APIs, and developed API documentation for internal and external use.
- Conducted performance profiling, identified bottlenecks, and optimized backend code for improved application speed and responsiveness.
- Managed and coordinated version control using Git and platforms like GitHub, fostering collaboration among cross-functional teams.
- Implemented robust security measures, including encryption, to protect sensitive data and prevent security breaches.
- Ensured secure API authentication and authorization, including OAuth, API keys, and token-based authentication.

States Fiscal Transparency Accountability & Sustainability (SFTAS)   *Abuja, Nigeria*
Software Engineer

- Improving the structure and readability of the existing code that makes up the company's website without changing its external behavior.
- Designing the structure and relationships of databases for efficient data storage and retrieval.
- Participating in code reviews to ensure code quality, consistency, and adherence to best practices.
- Conducting tests to verify the interaction and compatibility of various software modules.
- Overseeing the deployment process and managing software releases, including version control and rollbacks.

TEACHING EXPERIENCE

Organization: Algorithimics Coding School
Position Held: Python Programming Instructor

- Modifying existing curriculum to meet each student's learning requirements.
- Conducted comprehensive lectures on Python programming fundamentals.
- Developed and delivered hands-on coding exercises to reinforce learning.
- Provided individualized assistance to students, addressing coding challenges and debugging code.
- Building individual lesson plans tailored to each student's specific needs.

Organization: Redeemers' University
Position Held: Private Tutor

- Conducted one-on-one tutoring sessions for peers and incoming students in computer science courses.
- Provided clear explanations of complex concepts, enhancing understanding and academic performance.
- Developed personalized study plans to address individual learning needs and challenges.
- Shared practical tips and study strategies to help students excel in computer science coursework.
- Mentored and supported students, especially freshers in adapting to the academic environment, fostering a positive learning experience.

Organization: Mitiget Learning Portal
Position Held: Scratch Programming Mentor

- Led interactive sessions teaching children the fundamentals of coding using Scratch.
- Assisted in the development of creative projects, promoting imaginative coding.
- Encouraged a fun and engaging learning atmosphere to spark interest in programming.
- Attended meetings and reviews.

Organization: National Information Technology Development Agency (NITDA) - Cybersecurity Awareness Campaign
Position Held: Workshop Coordinator

- Developed and presented cybersecurity awareness workshops for college students.
- Covered topics such as password security, phishing awareness, and online privacy.
- Facilitated discussions on real-world cybersecurity threats and preventive measures.

Organization: Tech Innovators Club
Position Held: Robotics Workshop Facilitator

- Designed and executed robotics workshops for high school students.
- Guided participants in building and programming robots using Arduino and sensors.
- Fostered a collaborative learning environment, encouraging teamwork and problem-solving.

Undergraduate Research Project: "The development of a web-based money exchange system", Undergraduate Project submitted to the Faculty of Science, Redeemers University, August 2023.

Code Reliability and Usability in Teaching Resources: I looked into how code examples' usefulness and quality affect learning, particularly when it comes to educational resources like screencasts.

Development of a Debit-Card Fraud Detection Model: Developed a Debit-Card Fraud Detection Model (2023) using advanced algorithms and machine learning to enhance online financial security.

Design and Implementation of a web-based system for Eye-Defects Detection: Developed a web-based system using deep learning for early detection of eye defects.

Enhancing Cybersecurity Measures in Financial Transactions: I led a project on "Enhancing Financial Cybersecurity." Using advanced algorithms and machine learning, the study aimed to detect and prevent online fraud by analyzing transaction patterns and user behaviors, providing crucial insights for securing digital financial ecosystems.

Assessment of Education Resources in Software Development: I evaluated the efficacy of various technologies and tools utilized in software development education, focusing on those that offer code examples in multimedia formats.

Innovations in Sustainable Urban Planning: I orchestrated a multidisciplinary approach, proposing sustainable development plans through data analytics, environmental science, and architecture. The outcomes offer urban design frameworks and policy recommendations to advance conversations on sustainable urban development.

Human-Robot Interaction in Assistive Technologies: I studied "Human-Robot Interaction in Assistive Technologies," which involved developing robotic systems that are sympathetic to people who have mobility problems. By creating user-centric interfaces, the project demonstrated how robotics can improve quality of life and accessibility, influencing inclusive technology for a range of user groups.

Optimizing Deep Learning Architectures for Image Recognition: In a Nov '20 to Feb '21 project, I optimized deep learning for image recognition. Explored advanced CNN architectures and optimization, identifying performance factors. Impacts extend to autonomous systems and healthcare.

Wireless Sensor Networks for Environmental Monitoring:

Led a project focusing on deploying wireless sensor networks for environmental monitoring. Designed and implemented a network of sensors to collect and transmit data on environmental parameters.

Explainable Artificial Intelligence (XAI) for Decision Support Systems: Leading research on "Explainable AI (XAI) for Decision Support Systems" from Nov 2021 to May 2022, I focused on enhancing interpretability in complex AI models. Novel algorithms provided human-understandable justifications for AI decisions, contributing to ethical application and building confidence in AI technologies

Cyber-Physical Systems Security: Threat Modeling and Mitigation: I concentrated on "Cyber-Physical Systems Security," addressing threats in critical infrastructure. Employing threat modeling and vulnerability assessments, I developed robust security protocols to fortify these interconnected systems against cyberattacks, contributing significantly to their resilience in our digital and physical infrastructures.

Secure Communication in Internet of Things (IoT) Networks:

Led a study on securing communication in IoT networks. Investigated encryption methods and authentication protocols to enhance the privacy and security of data exchanged between connected devices.

PROFESSIONAL TRAINING/COURSES

- Scrum Master PSM 1 - Scrum Master Certification - Agile 2023
- The Complete Cyber Security Course : Hackers Exposed!
- Fullstack Laravel 10 + Vue.js 3 (2022) - Build APIs and SPAs
- The Web Developer Bootcamp
- Learning DevOps: Docker, Kubernetes, Terraform and Azure DevOps
- Complete Web & Mobile Designer in 2023: UI/UX, Figma, +more
- HTML5, CSS3 & Javascript Workshop
- Introduction to Computer Networks
- Data Communications and Networking
- Back-End Web Development
- New Horizon Marathon Training: Certified Secure Computer User, SQL Fundamentals, Cisco Certified, Network Associate, Machine Learning with R, Android Mobile Application Development

AWARDS

- Co-Highschool Valedictorian (2018) - Caleb International College
- Graphic Designer Recognition Award (2020) - Indigo Awards
- Most Effective Workforce (2021) - Bariansystems Limited
- Entrepreneur of the year (2023) - Redeemer's University Students Association (RUNSA)
- Heart of Humanity Award (2023) - Nigerian Humanitarian Award
- Community Impact Excellence Awards (2022) - Nigerian Society for Social Responsibility

PROGRAMMING SKILLS

Languages: Python, Java, JavaScript, C++, C, PHP, Kotlin, Ruby, Monorepo,
Technologies: React, Git, MongoDB, Scrum, Docker, Machine Learning Frameworks (TensorFlow, PyTorch)

REFERENCE

Upon Request