**Vangerwua Johnpaul Tor**  
**Software Engineer**  
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**Education & Certificate**

* MSc. in Cyber Security from Coventry University, United Kingdom Status - Graduated
* BSc. in Computer Science from Augustine University, Nigeria Status - Graduated
* Google Cybersecurity Professional Certificate Status - Completed
* Certified in Cybersecurity (ISC2) Status - Completed

**Work History**

*Software & Security Engineer at Tata Technologies, United Kingdom Oct 2022 - March 2025*

* Development of Flutter app to run on an embedded environment as part of Automotive IVI applications.
* Contributed to the development of OTA (Over-the-Air) software update features for next-generation infotainment systems.
* Led the development and deployment of a Neural Network-based Intrusion Detection System (IDS) using Python and implemented the Inference engine in Rust, improving anomaly detection speed and accuracy.
* Designed and implemented Incident and Emergency response processes, policies, and playbooks to handle potential cybersecurity threats effectively.
* Implemented CI/CD pipelines for in-house legacy applications that previously relied on manual deployment processes, reducing deployment time from hours to minutes.
* Redesigned user interfaces for in-house applications, improving accessibility compliance and reducing training time for new employees.
* Worked on embedded software for Electronic Control Units (ECUs), including Body Control Modules and Advanced Driver Assistance Systems (ADAS), in compliance with AUTOSAR architecture.
* Collaborated with software and hardware engineers to integrate security measures throughout the product development lifecycle.
* **Tools/Skills Used:** NextJS, NodeJS, Python, Typescript, tRPC, CI/CD, TDD, AWS, Docker, AI/ML.

*Full Stack Senior Software Engineer at Analytics Intelligence, United Kingdom Nov 2019 - Sept 2022*

* Worked on API micro-services for AI (Facial & Biometrics) and Document Verification using NodeJS for structuring a scalable architecture.
* Managed cloud environments and deployments with digital ocean, docker and Kubernetes, significantly reducing downtime and operational inefficiencies.
* Developed API Gateway system for an API Service platform using Golang for AI (Facial & Biometrics) and Document Verification API services.
* Lead a team of frontend and backend engineers in developing data analytics integrated Loyalty System using NodeJS.
* Managed and Automated CI/CD pipelines to streamline deployment to cloud platforms and improve CI/CD practices.
* Developed an AI chatbot system with NextJS and NodeJS, integrated data analytics platform for real-time insights, automated reporting, and personalised responses, and enabled social platform connectivity via the Twilio API.
* Developed mobile applications using the React Native framework, delivering cross-platform compatibility, enhanced user experiences, and efficient performance across Android and iOS devices.
* **Tools/Skills Used:** TypeScript, React Native, NextJS, NodeJS, Go, Docker, Kubernetes, Digital Ocean, MongoDB, TDD, Postgres, CI/CD, Expo.

*Full Stack Software Engineer at KPMG, Nigeria Oct 2018 - Oct 2019*

* Supervised and maintained internal MSSQL databases in the Information Technology Services (ITS) Department, ensuring data integrity, performance optimization, and resolving software-related issues for in-house applications.
* Upgraded legacy web applications from WebForms to ASP .Net Core, enhancing system performance, scalability, and security while modernizing the overall architecture.
* Automated internal business processes by implementing efficient algorithms in C#, significantly improving operational workflows, reducing manual interventions, and increasing productivity.
* Developed and optimized back-end services, implementing performance enhancements, bug fixes, and security updates to ensure reliability and efficiency across applications.
* Collaborated with cross-functional teams to improve UI/UX, integrate REST APIs, and deploy new features, ensuring seamless functionality and a better user experience.
* **Tools/Skills Used:**  C#, ASP .Net Core, docker, kubernetes, SQL, ASP .Net Web API, Redis, GraphQL, REST API, TDD.

*Software Engineer (Intern) at Vatebra Technologies, Nigeria Aug 2017 - Sep 2018*

* Developed an Enterprise-level Support Ticketing System using C#, ASP.NET Core, and ReactJS, enabling efficient issue tracking, ticket assignment, and resolution for enterprise users.
* Designed and implemented microservices architecture for managing database operations, ticketing workflows, authentication, and user management, ensuring modularity, scalability, and maintainability.
* Integrated real-time notifications and automated workflows, enhancing responsiveness and reducing resolution times for support tickets.
* Learned and applied industry best practices, gaining hands-on experience with NodeJS, ReactJS, and ASP.NET Core, while adopting agile development methodologies to improve efficiency.
* Optimized API performance and enhanced data security, ensuring robust protection against vulnerabilities and efficient data handling across services.
* **Tools/Skills Used:** C#, ReactJS, ASP .NET Core, NodeJS, PostgreSQL, REST API, TDD.

*Reference available on request.*