

OBE, Desmond Obinna

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CAREER OBJECTIVE

Versatile and results-driven technology professional with a strong focus on AI, machine learning, software development, and enterprise IT support. Passionate about delivering intelligent digital solutions that improve operational efficiency, drive automation, and enhance user experience. I aim to contribute to forward-thinking organizations by combining hands-on IT support with fullstack development expertise and deploying scalable, cloud-based AI models. Eager to solve real-world problems through data-driven insights, secure system integration, and collaborative innovation.

SKILLS SET

- Microsoft 365 – SharePoint, Teams, Office Online, Intune
- Programming & Dev. – Languages: Python, Kotlin, JavaScript, & C++. Web & App Dev.: Node.js, Django, Dart, Flutter, React, HTML, CSS. Mobile App Tools: Android Dev. Platforms, Wearables SDKs.
- AI and ML - Frameworks: TensorFlow, Pytorch, Keras, Scikit-Learn, & IBM Watson Health Concepts: Neural networks (CNN, RNNs), NLP, computer vision, & digital Phenotyping
- Data Science & Analytics - Tools: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Seaborn Power BI, & Tableau. Techniques: Data pre-processing, feature engineering, model optimization, sentiment analysis, behavioural biometrics.
- UI/UX designs: Figma and Framer.
- Project Management: Asana, Jira, & Laravel.
- Cloud & Deployment - Platforms: AWS & Azure. Tools: GitHub, Git, CI/CD pipelines, High Performance Computing (HPC) environments.

EDUCATION

June 2025 – April 2029	PhD in Artificial Intelligence
Institution:	Information Technology, College of Science and Engineering, James Cook University, Australia
Thesis	<i>Leveraging Active and Passive Sensing Technologies for Real-Time Assessment and Triage of Maternal and Paternal Perinatal Mental Health Risks</i>
May 2023 – April 2025	Master of IT (Computing)
Institution:	Information Technology, College of Science and Engineering, James Cook University, Australia
Result Grade Obtained:	Distinction (6.69 CGPA on a scale of 7.0)
Aug. 2019 – July 2023	Masters of Engineering (Power Electronics)
Institution:	Department of Electrical Engineering, University of Nigeria, Nsukka, Nigeria.
Thesis title:	<i>“Development and Analysis of a Single-phase, five-level, F-type inverter”.</i>
Result Grade Obtained:	Distinction (4.83 CGPA on a scale of 5.0)
Sept. 2011 – July 2017	Bachelors of Engineering (Electronics Engineering)
Institution:	Department of Electronic Engineering, University of Nigeria, Nsukka, Nigeria.
Thesis title:	<i>“Design and Implementation of an Improved Door Security System using Fingerprint”.</i>
Result Grade Obtained:	Second Class Upper Division (3.85 CGPA on a scale of 5.0)
April 2016 – Sept. 2016	Hokkaido University Short Term Exchange Program (HUSTEP).
Institution:	School of Engineering, Hokkaido University, Japan.
Result Grade Obtained:	Satisfactory

EMPLOYMENT HISTORY

Microsoft 365 & Cloud System Engineer (Contract)
[Study Cairns – Australia](https://www.cairns.edu.au/)

June 2025–Present (Hybrid)

- Provide 1st and 2nd level IT support to staff and leadership across the organisation Microsoft 365 and Dropbox related incidents within agreed SLAs
- Administer Microsoft 365 tenant including user account management license allocation mailbox configuration Teams and SharePoint permissions
- Perform regular license audits cost optimisation and renewal tracking across Microsoft 365 Dropbox and domain services
- Provision and configure end user devices including laptops monitors printers and mobile peripherals
- Design and maintain structured SharePoint and Dropbox information architecture with role based access and governance controls
- Develop automation and Excel based dashboards for asset tracking license visibility and operational reporting
- Coordinate with vendors and service providers for hardware procurement renewals and issue resolution
- Maintain IT documentation standard operating procedures and user guides to support organisational knowledge and audit readiness
- Provide technical updates and recommendations to Board and Director level stakeholders to inform IT strategy and risk management
- Migrated organisational data from Dropbox to OneDrive, eliminating ongoing Dropbox renewal costs

Microsoft Support Engineer Intern

Apr 2025 – Sep 2025 (Remote)

Risk 2 Solution Group, Australia

- Manage end-to-end employee onboarding and offboarding processes, ensuring seamless system access, licensing setup, and compliance adherence.
- Deliver helpdesk support by managing incoming tickets, tracking, troubleshooting, and resolving issues across Microsoft 365 services, including Teams, SharePoint, OneDrive, Outlook, and Office Online.
- Perform system and software installation, configuration, and updates to keep environments optimized and secure.
- Provide high-quality customer service, responding promptly and professionally to user requests and incidents.
- Support Active Directory and Azure AD administration, including user account management, role assignments, group policy updates, and access controls.
- Automate workflows using Power Automate, improving operational efficiency and reducing manual workload.
- Collaborate with the senior Microsoft 365 engineer to deploy new team sites, custom solutions, and advanced configurations in client environments.
- Document IT procedures, develop user guides, and maintain knowledge base articles to support team scalability and operational efficiency.
- Participate in IT strategy meetings, contributing insights for the continuous improvement of IT services and cloud collaboration tools.

Machine Learning Engineer

Dec 2024 – Present (Remote)

JutaLab, Nigeria

- Designed, implemented, and maintained machine learning pipelines covering data ingestion, preprocessing, model training, evaluation, and integration into production applications.
- Developed and optimised predictive machine learning models using feature engineering, hyperparameter tuning, and performance evaluation techniques to improve accuracy, robustness, and generalisation.
- Supported the transition of machine learning prototypes into production ready components, ensuring reliability, scalability, and maintainability within operational systems.
- Contributed to MLOps workflows, including model versioning, automated testing, performance monitoring, and CI CD pipelines to support continuous deployment and lifecycle management of machine learning models.
- Integrated machine learning and AI components into backend systems using Python based frameworks and libraries, enabling seamless interaction with existing software architectures.
- Implemented evaluation, validation, and feedback mechanisms to track model performance over time and support iterative improvement based on real world data.
- Produced technical documentation, analytical reports, and data visualisations to communicate model behaviour, performance metrics, and insights to both technical teams and non-technical stakeholders.

Nanocodes Programming, Nigeria

- Developed cloud-based applications deployed on AWS and Azure, ensuring scalability, security, and optimize performance.
- Conducted workshops on programming, leading classes on Python, React, and cloud technologies.
- Developed web and mobile applications using React and Flutter, integrated with secure RESTful APIs and backend databases for user authentication, session management, and real-time data retrieval.
- Designed and implemented relational schemas and NoSQL data models for feature modules, such as support ticket tracking and team collaboration interfaces.
- Built dynamic dashboards and reporting features powered by real-time database queries.
- Integrated backend services using Node.js with PostgreSQL and MongoDB, ensuring data integrity and performance scalability.

Maintained Git-based CI/CD pipelines for streamlined deployment of database-driven features.

Network Analyst Engineer*Nov 2021 – Jan 2023 (On-site)***Globacom Telecommunication, Nigeria**

- Managed base station controllers and telecommunication equipment, ensuring optimal network performance and reducing downtime by 10%.
- Conducted detailed site audits, identifying areas of improvement and ensuring compliance with Nigerian communication regulations.
- Analyzed network traffic and congestion, implementing optimization strategies that improved data flow and increased network capacity by 25%.
- Prepared detailed reports on performance metrics, site activities, and revenue generation, providing actionable insights to senior management.

AWARDS AND SCHOLARSHIP

Awards

- 2024 International Student Excellence Award by the Study Cairns
- JCU Student Ambassador

Scholarships

- Japan Student Service Organization (JASSO) Scholarship, 2016.
- JCU International Excellence Scholarship, 2023.
- JCU Postgraduate Research Scholarship, 2025

MEMBERSHIPS BODIES

- Associate Member of Australian Computer Society – 4381109
- Council for the Regulation of Engineering in Nigeria (COREN) – R68938
- Nigerian Society of Engineers (NSE) – S20635
- International Association of Engineers (NSE) – 509179

Publications

1. Obe, Desmond; Obe, Titus; Odeh, Charles; Obe, Emeka, "A Five-Level Nested Neutral Point-Clamped Inverter Topology" IET Power Electronics, 2024, <https://doi.org/10.1049/pel2.12793>
2. Obe, Desmond O.; Obe, Chinedu T.; Ugwuishiwu, Chikodili H.; Obe, Pauline I.; Eneh, Agozie H.; Odeh, Charles I.; Obe, Emeka S.; "A Single-Phase, Nine-level Switched-Capacitor-Based Inverter, "Journal of Power Electronics", February 2024, DOI: <https://doi.org/10.1007/s43236-023-00758-1>
3. Gideon UMOH, Desmond Obinna OBE, Benjamin MAMA Pauline OBE, Chikaodili Helen UGWUISHIWU, Hyacinth Agozie ENEH, and Emeka Simon OBE, "Effect of Stator Winding Chording on the Performance of Five Phase Synchronous Reluctance Motor", *Journal of Energy Systems*, Year 2023, Volume: 8 Issue: 1, 11 – 26. DOI: <https://doi.org/10.30521/jes.1255747>

REFERENCES

Available on Request