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CURRICULUM VITAE

IBABA, AYIBAEMI LEDUM

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EDUCATION

2020 – 2022: M.Eng. in Electrical/Electronic Engineering at Nile University of Nigeria, Abuja, Nigeria
- Thesis Title: "**Deep Compression: Video Transcoding Using Neural Networks**"

2013 – 2019: B.Eng. in Electrical/Electronic Engineering at Niger Delta University, Bayelsa, Nigeria
- Thesis Title: "**Rem9ja: Improving Remittances Using Bitcoin**"

EXPERIENCE

Assistant Lecturer, Department of Mechatronics Engineering, Nile University of Nigeria (2022 – Present)
- **Course Instruction**: Delivered lectures, facilitated class discussions, and engaged in interactive learning methods for undergraduate students.
- **Curriculum Development**: Contributed to the design, modification, and implementation of course syllabi and teaching materials.
- **Student Assessment**: Designed and graded exams, quizzes, and assignments; provided constructive feedback to foster student growth.
- **Office Hours & Consultation**: Conducted regular office hours to offer academic support and address student inquiries.
- **Committee Involvement**: Participated in departmental meetings and served on committees as required, contributing to the academic community.

Level Adviser, Department of Mechatronics Engineering, Nile University of Nigeria (2022 – Present)
- **Student Registration Management**: Oversaw the student registration process ensuring that all required documentation was accurate and submitted in a timely manner.
- **Issue Resolution**: Acted as the first point of contact for students facing academic or administrative issues, coordinating with relevant departments aiming for prompt and fair outcomes.

Assistant Curriculum Consultant for Miva Open University (2022 – 2023)
- **Collaborative Curriculum Development**: Partnered with the lead consultant to conceptualize and design the Computing department curriculum at Miva Open University.
- **Content Drafting and Editing**: Assisted in the creation, refinement and proofreading of course materials such as syllabi, lesson plans, and instructional resources.
- **Project Timeline Management**: Assisted in maintaining project schedules, meeting milestones, and ensuring deliverables were submitted on time.

Secretary, Program Working Group for 30% Contribution to the Core Curriculum and Minimum Academic Standards for the Nigerian University System (CCMAS) in the Department of Mechatronics Engineering, Nile University of Nigeria (2022 – 2023)

- **Agenda Planning and Minutes**: Scheduled working group meetings, prepared agendas, and documented minutes, ensuring precise record-keeping.
- **Document Management**: Managed a repository of working documents, drafts and final versions related to curriculum contributions and academic standards.
- **Research Support**: Assisted in researching best practices, guidelines, and case studies to contribute effectively to the national core curriculum and academic standards.

Private STEM Tutor, Self-employed (2020 – 2022)

- **Teaching and Facilitation**: Conducted tutorial sessions covering Math, Science and Engineering topics, using interactive and inquiry-based methods.
- **Assessment and Feedback**: Administered quizzes and provided constructive feedback to monitor student progress.

Mathematics Teacher, Government Secondary School Mbiama, Rivers, Nigeria (2019 – 2020)

- **Classroom Instruction**: Delivered lectures and facilitated classroom activities for Mathematics subjects.
- **Student Evaluation**: Graded exams and assignments while providing constructive feedback.

Research Intern, Niger Delta University (2018 – 2019)

- **Literature Review**: Conducted comprehensive literature searches and summaries to provide background for digital currency research projects.
- **Documentation & Reporting**: Assisted in preparing reports and presentations.

PREVIOUS SOFTWARE PROJECTS

Autoencoder For Video Compression in TensorFlow

- Utilized primary collected video dataset for training and testing.
- Designed and implemented a convolutional autoencoder model using TensorFlow.
- Employed various optimization techniques to enhance model performance.
- Benchmarked the model against existing compression algorithms based on compression ratio and quality.
- Achieved a compression ratio that outperformed conventional methods by 14%

Implemented A Mobile Bitcoin Testnet Wallet Using React-Native and BitcoinJS

- Designed a user-friendly interface using React-Native
- Integrated Bitcoin transaction functionality using BitcoinJS library.
- Conducted comprehensive tests on the Testnet chain to validate transaction processes.
- Successfully conducted secure and verified transactions on the Bitcoin Testnet chain.

Implemented a website for the e-library of the department of Electrical/Electronic Engineering, Niger Delta University.

- Conducted surveys and interviews to identify key features and functionality.
- Created the frontend and the backend of the e-library website.
- Curated and uploaded relevant academic resources.
- Performed usability tests to gather feedback for improvement.
- Successfully deployed the e-library.
- Achieved a 45% increase in the accessibility of academic resources within the department.

HOBBIES

Table tennis, Volleyball, Chess

REFERENCES

Available on request.