JEFFERSON NNAMDI CHUKWU

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EDUCATION

- ❖ **University of Ibadan – Ibadan, Nigeria**

  Bachelor of Science (B.Sc.) in Physics
  Expected Graduation: 2026

- ❖ **Relevant Courses:** Abstract Algebra, Ordinary Differential Equations, Statistics, Classical Mechanics, Quantum Physics, Electromagnetism, Computational Physics, Thermodynamics, Optics

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PROFESSIONAL EXPERIENCE

DISC Innovation Hub – Ibadan, Nigeria

Internship (3 Months)

- Gained hands-on experience in web development and programming languages, enhancing proficiency in JavaScript, and full-stack development.

- Developed both frontend and backend components of web applications, implementing interactive UI elements and database management solutions.

- Collaborated with a team of developers to build and optimize functional and user-friendly web applications using React.js, Node.js, and Express.js.

- Engaged in self-directed learning of JavaScript frameworks through online platforms such as YouTube and SoloLearn, further solidifying coding proficiency.

- Participated in agile development processes, including daily stand-ups, code reviews, and project planning.

Lotus Bank, IT unit – Lagos, Nigeria

Internship (6 weeks)

- Participated in a structured 6-week rotational internship across various departments within the IT division, gaining a broad understanding of the technological backbone of modern banking systems.

- Application Support: Provided assistance in resolving technical issues related to banking applications; learned how to log and track issues using internal ticketing systems and worked closely with end-users to ensure smooth operation.

- Core Banking Systems: Observed system integration and the management of customer data within core banking platforms. Gained insight into transaction processing, up-time maintenance, and regulatory reporting systems.

- Database Management: Supported in managing relational databases; assisted in running queries using SQL, observed data backup and recovery procedures, and understood the importance of data security and integrity in banking.

- Networking: Shadowed network engineers to understand LAN/WAN architecture, IP addressing, routing, and basic firewall configurations. Learned the essentials of maintaining a secure and efficient communication infrastructure.

- IT Infrastructure: Gained hands-on exposure to server rooms, hardware setup, virtual machine management, and system updates. Assisted in routine diagnostics and preventive maintenance of critical IT equipment.

- Software Development: Participated in agile team meetings, code reviews, and system design discussions. Gained understanding of the software development life cycle (SDLC), version control systems, and internal application testing.

- Cyber security: Learned about common cyber threats, data encryption, user access control, and real-time monitoring systems used to protect sensitive financial data.

Skills Developed:

- Technical: Basic SQL, networking fundamentals, familiarity with system administration, exposure to cyber security tools and software development practices.

- Analytical: Strengthened problem-solving abilities through hands-on IT troubleshooting and issue diagnosis across various platforms.

- Professional: Improved collaboration, documentation, and communication skills through cross-departmental coordination and task reporting.

- Adaptive Learning: Gained a holistic understanding of IT's role in banking operations, from backend infrastructure to user-facing systems.

CERTIFICATIONS

- **Web Development Training Certificate** – DISC Innovation Hub (2023)

- **JavaScript Framework Certificate** – SoloLearn (2023)

- **West African Examination Council (WAEC), 2022**

- **National Examination Council (NECO), 2022**

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, Rust

- **Web Development:** HTML, CSS, JavaScript, TypeScript, TailwindCSS, React.js, Next.js, Node.js, Express.js, PostgreSQL, MongoDB, REST APIs

- **Software & Tools:** Git, VSCode, GitHub, Postman, Vercel, Render, Docker

- **Mathematical & Analytical Skills:** Algebra, Statistics, Differential Equations, Linear Algebra, Numerical Methods, Physics Simulations

- **Problem-Solving & Logical Thinking:** Strong analytical skills with experience in algorithm design and debugging.

- **Language Proficiency:** Fluent in English, with strong technical writing and communication skills.

PROJECTS & EXPERIENCE

Reverse Dictionary App

Created an AI-powered reverse dictionary web application using the MERN stack. Users can enter a description, concept, or definition, and the app intelligently suggests matching words by interacting with a language model.

Key Features:

- AI-based word inference based on natural language input

- Fast and responsive UI built with React and TailwindCSS

- Backend inference and caching logic with Node.js and Express

- User query logging and history using MongoDB

- Modular architecture and clear separation of concerns

Medical Image Analysis (Coursework Project)

- Analyzed and manipulated medical images using Python's OpenCV and NumPy libraries.

- Applied advanced image processing techniques such as Fourier transforms, edge enhancement, and image rotation.

- Designed an interactive graphical interface to visualize medical image data and transformations.

- Delivered a structured project report including methodology, code implementation, and visual outputs.

Personal Portfolio Website

- Designed and developed a personal website showcasing skills, projects, and professional experience.

- Utilized JavaScript and [Next.js](#) to create an interactive and visually appealing layout.

- Integrated animations and responsiveness using TailwindCSS and custom CSS.

- Deployed the website on GitHub Pages for easy accessibility.

EXTRACURRICULAR ACTIVITIES & INTERESTS

- **Chess:** I actively participate in local chess tournaments and strategic problem-solving exercises.

- **Reading Novels:** I enjoy a variety of literature including philosophical, science fiction, and historical novels.

- **Sacred Choral Music & Latin Catholic Traditions:** I'm passionate about classical choral music and Gregorian chants.

- **Philosophical & Logical Reasoning Discussions:** I engage in deep intellectual discussions on metaphysics, logic, and human reasoning.

- **Coding:** I'm constantly learning and experimenting with new technologies, frameworks, and algorithms.

- **Anime:** I enjoy watching anime - a series of Japanese animation.

REFERENCES

❖ **Professor Gilbert Adie**

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Phone: 08059998665

❖ **Ruth Uchechinekegaemeri Okorom**

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