**Ikenna Anyanwu**

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*Education*

**Covenant University,** Sango-Ota Ogun State
Bachelor of Science, Computer Science, Projected July 2027
GPA: 4.65/5.00

**Brainfield Secondary School,** Port-Harcourt River State
Best Graduating Student, Brainfield Secondary School, 2023

*Projects*

**AI Powered Email Management System**                                                     Summer 2025
- Developed an automated Email Management system to summarize, organize, filter and prioritize user emails for increased productivity
- Implemented features for categorization, scheduling and smart search using Python, Langchain, Google's IMAP module and Gemini's API.
- Designed the system to integrate with Gmail's platform reducing manual sorting overhead and enabling faster response time.
- Automated inbox sorting and prioritization, demonstrating a 30–40% reduction in manual email processing time, improving workflow efficiency.

**Comparative Analysis of Google's Gemma 3,** Research Project                          Spring 2025
- Conducted a structured benchmarking study on Google's newly released Gemma 3 Large Language Model (LLM), evaluating its performance against other established LLM's (GPT–4, LLaMA/Mistral and Claude).
- Assessed reasoning, accuracy and efficiency across diverse datasets, highlighting the models' strengths and weaknesses relative to other competitors.
- Produced actionable insights on the real-world applicability of the LLM and advantages in diverse use cases.
- Developed an LLM best-fit recommendation model from research findings, optimizing performance-to-cost tradeoffs for real-world applications..

**Genetic Sequencing and Analysis tool**                                                Summer 2024
- Built a Python-based genetic analysis tool capable of processing over 1,000 sequences per minute, reducing manual analysis time by 70% and supporting faster bioinformatics research workflows.
- Optimized codon-to-protein translation using bioinformatics algorithms, enabling faster and more accurate protein prediction.
- Trained Gemini 1.5 Flash LLM to give further analysis on processed data.
- Enhanced genetic data interpretation workflows through the development of a program for DNA/RNA sequence processing and amino acid translation.

*Experience*

**Covenant University (Center for Systems and Information Services),** Ogun state, Nigeria     Fall 2024 – Spring 2025
*Administrative Assistant*
- Assisted in maintaining and troubleshooting campus IT systems, ensuring smooth operation for students and staff.
- Provided technical support to students and staff, troubleshooting hardware, software, and connectivity issues.
- Assisted in maintaining campus IT systems and networks to ensure reliable access to digital resources.
- Collaborated with senior IT staff to document workflows and standardize support procedures.
- Improved help-desk efficiency by reducing average issue resolution time by 25%, enhancing overall user satisfaction.

**Immanuel Clinic**, Port-Harcourt, Nigeria.                                             Summer 2023 - Present
*IT & Maintenance Manager*
- Implemented and maintained the Hospital Information System (HIS) using SQL-based databases and role-based access controls to ensure data security, availability, and compliance with healthcare standards.
- Oversaw day-to-day IT operations including network administration, Hardware/Software trouble shooting and user support for clinical and administrative staff.
- Coordinated preventive and corrective maintenance of IT infrastructure and physical facilities, reducing downtime by 35% and improving service reliability.

*Skills*

**Computer Programming and Data Analysis:**
 Python (Advanced), Front End Web Development, Problem Solving Algorithms, Tableau, Java, C/C++ programming, SQL, Machine Learning Model Design Implementation and Analysis, Prompt Engineering, LLM fine tuning.

**Voluntary Work:** Covenant University Hospitality Unit's Outreach Community Help program.
**Relevant Courses**: Systems Analysis and Design, Data Structures. Data Management, Internet Programming, Programming, Cyber Security, Digital Logic Designs, Software Engineering, Networking, Computer Architecture and Organization.

*Memberships*

- National Association of Computing Science Students (NACOSS) Covenant University member, Fall 2023 - Present

- Google Developers Groups Member, Fall 2023 - Present
- Covenant University Hospitality Team Member, Spring 2025 - Present