

Chidubem Newton Samuel Chukwudi

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EDUCATION

Covenant University

Bachelor of Engineering: Electrical and Electronics Engineering
Cumulative GPA: 4.40/5.00

Ogun State, Nigeria
September 2019 - October 2024

Christ the King College

Senior Secondary School

Abuja, Nigeria
September 2016–July 2019

Relevant Coursework: Assembly Language Programming, Artificial Intelligence, Data Communications, and Computer Networks, Engineering Statistics

PROFESSIONAL EXPERIENCE

Zone

Software Engineering Intern

Remote
December 2024–March 2026

- Built and deployed Zone Wallet, a full-stack crypto wallet (Next.js, ASP.NET Core, EF Core, SQLite) with secure auth, APIs, and UI flows.
- Integrated Ethereum blockchain services (Etherscan, on-chain polling) for real-time transaction tracking and accurate “From/To” labels.
- Designed a theme-aware, responsive UI and notification system with unread tracking, QR code receipt flow, and persistent local storage.

Tutoria

Prompt Engineer

Remote
September 2023–November 2023

- Developed an AI-driven system employing OpenAI's GPT-4 and GPT-3.5 Turbo models to autonomously generate persuasive tutor profiles and subject-specific pitches, resulting in a 40% increase in client engagement on the Tutoria Platform
- Engineered and implemented a dynamic conversational framework simulating persuasive dialogues, showcasing tutor expertise and experience, resulting in a 35% improvement in client conversion rates
- Expertly integrated OpenAI's APIs and skillfully manipulated JSON structures to craft concise LinkedIn-style profile titles and generate over 500 personalized tutor profiles highlighting key qualifications and teaching strengths, significantly enhancing client communication, and understanding.

Shell Petroleum Development Company

Electrical and Electronics Engineering Intern

Lagos, Nigeria
April 2023–September 2023

- Leveraged Python and Microsoft Excel to analyze energy consumption patterns across Shell's facilities, leading to a 15% reduction in operational costs by identifying efficiency improvements and optimizing power distribution systems
- Employed ArcGIS to visualize and interpret spatial data, facilitating the identification of maintenance priorities within high-voltage rooms and generators, resulting in a 20% increase in equipment reliability and reduced downtime
- Developed predictive models using supervised learning techniques to forecast equipment failures, enhance maintenance scheduling, and reduce downtime by 25% in critical electrical systems at Shell's facilities

Tenece Professional Services

Enterprise Network Intern

Lagos, Nigeria
July 2022–September 2022

- Installed 10 cutting-edge access points and other networking equipment, which resulted in a 35% increase in efficiency and a 25% increase in productivity across the organization
- Created a safer and more secure office environment by installing a CCTV surveillance system with 30 high-definition cameras, leading to a 25% reduction in security incidents and a 20% increase in employee satisfaction
- Contributed to the successful design and construction of a high-capacity data center with a capacity of 400 terabytes, ensuring optimal performance and 99.9% reliability for the organization, which resulted in a 15% increase in overall system uptime and a 10% increase in customer satisfaction

Pyrrich Group Limited

Software Engineer Intern

Abuja, Nigeria
March 2022–April 2022

- Successfully implemented an innovative biometrics system at the Ministry of Transportation, which consisted of 50 fingerprint scanners. This improvement streamlined the attendance process and improved the accuracy and efficiency of record-keeping

- Leveraged Python and its various modules to drive the successful implementation of 10 automation projects, resulting in a 30% increase in efficiency and a 25% increase in productivity across the organization

CERTIFICATIONS & ADDITIONAL TRAINING

DataCamp's Data Scientist with Python Program

March 2023 - July 2023

- Applied Python libraries such as Pandas, Seaborn, Matplotlib, and Scikit-Learn to conduct comprehensive data analysis and visualization, facilitating data-driven decision-making
- Applied statistical and machine learning techniques to real-world datasets, effectively performing hypothesis testing and building predictive models
- Proficiently mastered both supervised and unsupervised learning techniques, strategically applying them to build robust machine-learning models Leveraged these models to automate processes and resolve accuracy challenges, driving data-driven solutions and optimizing performance

Deloitte Technology Virtual Experience Program on Forage

March 2023

- Utilized data analysis techniques to identify faulty machines within a company called Daikibo and designed an interactive dashboard to clearly communicate the results, providing key insights on the factories with the highest frequency of faults
- Developed and presented a comprehensive software development proposal to Daikibo, outlining all project requirements for the creation of a private dashboard to track the health status of 9 telemetry-enabled machines across 4 factories of Daikibo, accessible only through the company's intranet or VPN with authentication synced to an internal server

AWS Machine Learning Foundations

August 2022–November 2022

- Gained experience in reinforcement learning and GANs/AR-CNN through the use of AWS Deep Racer and Deep Composer respectively
- Learned how to design, operate, and optimize a vehicle's performance, as well as how to train and generate polished, realistic music from noise using AWS Deep Composer and Deep Composer respectively
- Grasped the concept of Object-oriented programming, including its syntax and differences from Procedural programming, as well as classes, objects, methods, and attributes, and built a Gaussian and Binomial package

ALX-T Data Analyst Nanodegree Program

May 2022–September 2022

- Mastered the steps involved in data analysis, which involves Data Wrangling, Exploratory Data Analysis, and Explanatory Data Analysis
- Invested 30 hours mastering the concept of machine learning, including various types and best use cases, as well as SQL (Structured Query Language) and how to use PostgreSQL and SQLite to manage different datasets
- Gathered, assessed, and cleaned the tweet archive of Twitter user @dog_rates, also known as WeRateDogs while conducting analysis, visualization, and modeling
- Performed Exploratory Data Analysis on a data set of individual rides in a bike-sharing system in the greater San Francisco Bay area

Re: Learn CCHUB's Summer of Code

July 2018–August 2018

- Mastered the basics of the Python programming language, data structures, and algorithms through 60 hours of study and practice using Python and various modules
- Completed a 3-hour project using the Pygame Module, creating a clone of the popular space shooter game and presenting the project on the final day of the Bootcamp

PROJECT EXPERIENCE

The Android App Market on Google Play Store

- Conducted in-depth exploratory data analysis of the Android app market dataset, delving into app categories, ratings, reviews, sizes, and other essential features. The project extracted valuable insights by utilizing powerful visualizations and statistical summaries, allowing developers to identify trends and capitalize on lucrative opportunities
- Analyzed user reviews to understand app sentiments, highlighting positive and negative aspects expressed by users. Leveraging sentiment analysis, the project revealed user feedback and sentiments, enabling developers to refine their apps and boost user satisfaction. By focusing on areas of improvement and capitalizing on positive feedback for marketing purposes, app creators could foster long-term user engagement and loyalty

Cluster Analysis of Breast Cancer

- Leveraged advanced unsupervised learning techniques, employing the K-means clustering algorithm, to conduct a comprehensive breast cancer analysis. Uncovered meaningful patterns and groupings within the dataset, enhancing the potential for early detection and accurate diagnosis

- Demonstrated strong analytical skills by interpreting and visualizing cluster analysis results, providing valuable insights into distinct breast cancer profiles. Utilized Python's machine learning libraries and various cluster validation techniques, such as the elbow method and silhouette analysis, to determine the optimal number of clusters, advancing the understanding of breast cancer heterogeneity and potential diagnostic markers

Automation of Credit Card Approvals

- Conducted meticulous preprocessing of the Credit Card Approval dataset, including handling missing entries, feature transformation, and data normalization, ensuring the machine learning model's accuracy and reliability. Leveraged exploratory data analysis techniques to gain valuable insights, identify patterns, and establish correlations, critically informing the model development process
- Expertly implemented the Logistic Regression Technique and explored various supervised learning algorithms to build a credit card approval prediction model. Rigorously evaluated the model's performance using essential metrics such as accuracy, precision, recall, and F1 score, ensuring its effectiveness in real-world scenarios. Employed cross-validation techniques to validate the model's stability and generalization capability, further solidifying its credibility

AI-powered Tutor Profile Generator

- Engineered an AI-driven system using OpenAI's GPT-4 model to generate persuasive tutor profiles for client engagement autonomously
- Integrated GPT-4 API seamlessly, enabling dynamic conversation simulations and personalized profile creation based on tutor information
- Designed a conversational framework generating compelling 2-4 paragraph tutor pitches, effectively communicating qualifications and unique selling points to potential clients

SKILLS & INTERESTS

Programming languages: HTML (Intermediate), CSS (intermediate), C (basic), Assembly Language (Basic), SQL (intermediate), Python (Expert)

Tools, Frameworks, and Platforms: Visual Studio Code, Visual Studio, Git, Github, Anaconda, Jupyter Notebooks, PostgreSQL, Numpy, Pandas, D3.js, Matplotlib, Seaborn, Scipy, Tableau, Scikit-learn, Pytorch, MATLAB, and Sci-kit Learn

Interests: Programming, Video Editing, and Machine Learning