

Jessica Ogbonna

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Professional Summary

Enthusiastic and detail-oriented Computer Science student with strong skills in Python programming, SQL, data analysis, algorithm design, and problem-solving. Experienced in building web apps, AI-powered tools, and data visualization dashboards. Skilled in using modern AI tools for productivity, analysis, and development workflows. Passionate about solving problems and eager to contribute to real-world projects and gain practical industry experience.

Education

COVENANT UNIVERSITY

Ogun, Nigeria

Nov 2023 – date

- B.Sc. Computer Science. 300 level.
- First class honors. 4.89/5.00 CGPA
- Active member of the GDG (Google Developers Group)
- Active member of Hebron Startup Lab (HSL)
- Relevant coursework: Data Management, Artificial Intelligence, Problem Solving, Python Programming, Operations Research, Java Programming

Technical Skills

- **Programming Tools:** Python, Java, SQL, Excel, Dart
- **Frameworks & Tools:** Flutter, Pandas, NumPy, Matplotlib, Scikit
- **AI Tools:** Prompt Engineering, Generative AI tools (e.g., LLMs), AI-assisted development tools
- **Data Science Skills:** Data Visualization, Algorithm Development, Problem-Solving, Machine Learning
- **Other Tools:** Microsoft Office (Word Specialist Certified), Prompt Engineering, Mobile

Development

- **Languages:** English (Fluent), Spanish (Intermediate)

Projects and Technical Work

CampusFlow AI (GCP + AI + Automation)

- Developed an AI-powered application that automatically extracts assignment details and deadlines from uploaded PDFs, images, and screenshots using OCR and NLP techniques.
- Enhanced AI extraction to return structured JSON data, enabling automated task creation, storage, and tracking.
- Implemented scheduled background jobs (cron) to send automated email reminders for upcoming deadlines using a third-party email API.
- Designed the system with cloud-ready architecture, preparing integration with Google Cloud services for scalable automation.

Movie Data Management System (Python + MongoDB)

- Built a complete movie data management system using Python and MongoDB with modular scripts for CRUD operations, data import, and analytics.
- Implemented aggregation pipelines to compute insights (e.g., year with most movies, average votes per year).
- Automated CSV report generation using Pandas and structured the project with reusable modules

Emotion Detection Web App (AI + Python + Web Deployment)

- Developed a web application that detects human emotion from uploaded images or live camera capture using AI models.
- Integrated a database to store past captures and built a dashboard for users to view history.
- Deployed the application using Render.

LLM Question-Answering System (CLI + Web App)

- Built a question-answering tool that connects to a Large Language Model (LLM) API.
- Designed both a command-line interface and a graphical web interface for user interaction.
- Deployed the application using Render.

Covid-19 Data Analysis (Python)

- Cleaned and analyzed a Covid-19 dataset and visualized the relationship between countries and reported deaths.
- Generated insights using Pandas and Matplotlib.

Data Visualization Dashboard (Excel)

- Created interactive Excel dashboards to track and visualize restaurant order trends.

Algorithm Design Practice (Python + C)

- Implemented efficient sorting and searching algorithms to optimize computation time.

Flutter Mobile Apps

- Developed a simple e-commerce app for Nike shoes using Flutter.
- Built a functional to-do application demonstrating UI widgets, state management, and basic mobile logic.

Experience

HARMONY INTERNATIONAL SCHOOLS

Lagos, Nigeria

Teaching Assistant

2019-03 – 2023-09

- Organized and distributed learning materials, ensuring accuracy and accessibility.
- Developed strong relationships with staff, students, and parents, fostering collaborative learning environments.
- Supported teachers in preparing engaging resources and maintaining structured classrooms.
- Created performance tracking sheets in Excel to support student progress monitoring.

Certifications

- Introduction to Data Science – Alison (Aug 2025)
- Python for Data Science – Sept 2025
- Microsoft Office Specialist: Word Associate (Office 2019) – Mar 2024
- Certificate in Prompt Engineering – Feb 2024
- Python for Data Science and Machine Learning Bootcamp – Udemy (Nov 2025)

Leadership & Activities

- GDG (Google Developers Group) on campus, Covenant University
- Project 1 million volunteer, Covenant University
- Hebron Startup Lab member, Covenant University