SCHOLASTICA NWANZE

AI Engineer **|** Python Developer

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Location: Coventry, UK **|** Portfolio

Open to Relocation | Available: September 2025

PROFESSIONAL SUMMARY

MSc Applied AI graduate with production experience building AI systems and full-stack applications. Strong foundation in Python, FastAPI, and machine learning with proven ability to deliver working solutions from concept to deployment. Seeking technology role to contribute to real-world AI applications in the technology sector.

SKILLS

Programming: Python, SQL, JavaScript, HTML, CSS, R
AI/ML Technologies: Scikit-learn, Pandas, NumPy, Natural Language Processing, Machine Learning Pipelines
Development Tools: Git/GitHub, VS Code, Jupyter Notebook, Docker, RESTful API
Frameworks: FastAPI, Django, React.js

EDUCATION

MSc Applied Artificial Intelligence | Aston University | *Sep 2024 – Sep 2025*
Relevant Coursework: Machine Learning, Software Engineering, Data Mining, Mathematics for AI, Algorithm Design
Academic Focus: Production AI implementation, software development best practices, scalable system design

BSc Biomedical Science | University of Hertfordshire | *Sep 2017 – Jun 2021*
Key Skills: Data analysis, research methodology, statistical analysis, data interpretation, scientific problem-solving

PROJECTS

SCAI - CONVERSATIONAL AI ASSISTANT

Technologies: *Python, FastAPI, WebSockets, JavaScript, PostgreSQL, Real-time Audio Streaming, Computer Vision, NLP, APIs*

- Developed full-stack conversational AI with real-time voice interaction, WebSocket communication, and PostgreSQL session management
- Implemented speech-to-text/text-to-speech pipeline and computer vision emotion recognition for natural, context-aware conversations
- Built scalable architecture supporting multiple concurrent users with custom authentication and state management
- Designed modular system supporting RAG implementation and semantic memory capabilities

WORDMATRIX - WORD PUZZLE GAME

Technologies: *Python, FastAPI, JavaScript, Data Processing, Algorithm Design, Web APIs*

- Developed full-stack word puzzle application with intelligent word scrambling algorithms and game state management.
- Engineered data-driven dictionary system, processing 200+ entries, with smart word selection.
- Built RESTful API architecture using FastAPI for real-time frontend-backend communication.
- Created responsive web interface with score tracking and modular architecture for future expansion.

PERSONAL PORTFOLIO WEBSITE

Technologies: HTML, CSS, JavaScript, Responsive Design

- Designed and developed professional portfolio website, showcasing my development projects and technical expertise
- Built responsive interface with smooth navigation, project showcases, and interactive contact functionality
- Implemented modern web design principles, featuring clean layout and optimised user experience
- Created dynamic project gallery highlighting technical skills
- Deployed production website on Vercel, demonstrating web development and deployment capabilities

PROFESSIONAL EXPERIENCE

Healthcare Assistant | Prime Life | *Jun 2024 – Present*

- Developed problem-solving and communication skills in fast-paced environment.
- Demonstrated reliability and attention to detail while managing multiple responsibilities.
- Enhanced adaptability working with diverse teams in multicultural setting.

Technology Intern | Bright Network | *Jun – Jul 2023*

- Gained exposure to professional technology environment and AI business applications.
- Participated in research on automation solutions and data analysis approaches.
- Collaborated with team members on technical presentations and recommendations.
- Developed understanding of how AI concepts apply to real business challenges.

CERTIFICATIONS

NVIDIA Deep Learning Certification (*In Progress*) | 2025

LANGUAGES

English: Native
French: Learning - A2 level, progressing to B1

Committed to intensive language development for successful integration in a multicultural workplace

WORK AUTHORISATION & AVAILABILITY

Current Status: UK Student Visa
EU Employment: Will require work visa sponsorship
Availability: September 2025
Commitment: Dedicated to long-term career growth in EU tech sector
Flexibility: Open to hybrid and on-site opportunities with business travel flexibility