Charles Edo

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Github: https://github.com/acexedo

Portfolio Website: https://acexedo.netlify.app

Background

Computer science graduate with hands-on experience in Python development, web development, web security and data analysis.

Education

Bachelor of Technology in Computer Science

Bells University of Technology, Ota, Nigeria

January 2020 - August 2025

- Relevant Coursework: Computer Networks, Operating Systems, Programming Languages (Python, JavaScript), Computer Architecture, Data Analysis.
- Final Project: Developed a machine learning model to predict customer purchasing power by analyzing patterns in large datasets, enhancing skills in data processing and pattern recognition applicable to threat detection.
- GPA: 4.62/5.00

Work Experience

Web Developer (Freelance)

Self Employed

January 2021 - Present

- Designed and developed secure web applications, including e-commerce platforms, portfolios, and blogs, using frameworks like Flask, React.js, and WordPress.
- Implemented input validation and secure coding practices to mitigate vulnerabilities such as SQL injection and cross-site scripting (XSS), ensuring robust application security.
- Optimized website performance and data handling, collaborating with clients to meet project requirements and enhance user trust through secure designs.

Python Developer (Freelance)

Self Employed

January 2019 - Present

- Built Python-based solutions, including web scraping scripts, automation tools, and a stock market analysis bot, emphasizing data integrity and secure data handling.
- Developed scripts for data conversion and database entry, incorporating error-checking mechanisms to prevent unauthorized access or data corruption.
- Created a Difference-in-Differences (DiD) model to analyze the impact of rising cost of living on economic datasets, honing skills in statistical modeling and data interpretation.
- Designed a water quality determiner using an ensemble machine learning model, integrating multiple algorithms to predict environmental risks with high accuracy
- Built a model for predicting credit risk using sentiment analysis on textual data, applying natural language processing to assess financial vulnerabilities
- Developed an ensemble model for an intrusion detection system targeting zero-day attacks, leveraging machine learning to identify novel threats and enhance system security.
- Explored cybersecurity concepts like secure API integration and data encryption through self-directed projects, strengthening the technical foundation for secure system design.

Intern

Easy Sourcing Ltd, Nigeria

March 2024 – September 2024

- Developed and maintained a WordPress-based company website, implementing security features like user authentication and data encryption to protect sensitive information.
- Performed data cleaning, management, and entry tasks, ensuring accuracy and confidentiality of client data in compliance with organizational standards.
- Assisted in troubleshooting technical issues, enhancing system reliability and user experience through proactive problem-solving.

Skills

Technical Skills

- Programming: Python, JavaScript, HTML5, CSS, MySQL
- Frameworks/Tools: Flask, React.js, Node.js, WordPress, GitHub
- Data Analysis: Machine Learning, Data Processing, Microsoft Excel
- Cybersecurity-Relevant: Secure Coding, Input Validation, Network Troubleshooting, API Security

Soft Skills

- Critical Thinking: Analyzed complex coding issues and dataset patterns to develop effective solutions.

- Teamwork: Collaborated on group projects and client deliverables, ensuring alignment with goals.
- Adaptability: Quickly learned new tools and technologies through self-directed study.
- Communication: Clearly conveyed technical concepts to clients and team members.

Achievements & Co-Curricular Experiences

- **Machine Learning Project (BTech Capstone):** Designed a model to predict patterns in datasets, developing skills in data analysis and anomaly detection relevant to cybersecurity threat identification.
- **Collaborative Coding Projects:** Contributed to team-based programming assignments at Bells University, refining teamwork and problem-solving skills in technical environments.
- **Self-Directed Learning:** Independently studied cybersecurity trends, such as ransomware mitigation and ethical hacking techniques, to build foundational knowledge for NBCC's program.
- **High Academic Performance:** Achieved a 4.62 GPA, reflecting discipline and dedication to mastering complex technical concepts.
- **Client Work:** Successfully completed 20+ freelance projects with positive client feedback, building real-world problem-solving and software development experience.