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Software Developer

<https://nedustack.github.io/Edward-Portfolio/>

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# SUMMARY

I am a certified Software Engineer with a solid foundation in Python, Django, Git methodologies and best practices. I have a keen understanding of continuous integration, deployment, and automation tools. I am eager to contribute my skills to fostering a Software Development culture that accelerates software delivery and ensures reliability in production environments.

# CERTIFICATIONS / EDUCATION

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| --- | --- |
| CS50’s Web Programming with Python and Javascript - Edx (Havard) | 2022 |
| CS50’s Intro to Programming with Python - Edx (Harvard) | 2023 |
| Python and Django Fullstack Web Developer Bootcamp - Udemy | 2022 |
| B.Sc Computer Science – Ebonyi State University, Abakaliki, Nigeria | 2018 |

**TECHNICAL SKILLS**

## Proficiency in Python

* + **Core Python**: Strong understanding of Python fundamentals, including data structures (lists, dictionaries, sets), object-oriented programming (OOP), functions, and error handling.
  + **Advanced Python**: Knowledge of advanced features like decorators, generators, context managers, multi-threading, and file I/O operations.

## Django Framework

* + **Django Architecture**: Understanding the Model-View-Template (MVT) architecture, Django's request/response lifecycle, middleware, and signal handling.
  + **ORM (Object-Relational Mapping)**: Proficiency in Django's ORM to manage database models, relationships (One-to-One, One-to-Many, Many-to-Many), and queries.
  + **URL Routing**: Ability to configure and manage URL routes, dynamic routing, and view-to-template connections.
  + **Django Forms**: Managing forms in Django, handling user input, validation, and securing forms against attacks (e.g., CSRF).
  + **Template Engine**: Using Django's template language to render HTML and manage dynamic content, template inheritance, and custom filters.
  + **Django Admin**: Customizing the Django admin panel for better management of models and permissions.
  + **Authentication & Authorization**: Implementing user authentication systems, including login/logout, registration, password management, and user roles.
  + **Django REST Framework (DRF)**: Building RESTful APIs using Django's DRF, working with serializers, viewsets, routers, authentication, and permissions.
  + **Asynchronous Programming**: Understanding of Django’s support for async views and working with asynchronous tasks.

## Front-End Technologies

* + **HTML/CSS**: Basic to intermediate understanding of HTML5 and CSS3 for building and styling web pages.
  + **JavaScript**: Knowledge of JavaScript to create dynamic, responsive web applications. Familiarity with libraries like jQuery or front-end frameworks like React or Vue.js is a plus.
  + **Bootstrap or Tailwind CSS**: Ability to use front-end frameworks to quickly build responsive layouts.

## Database Management

* + **SQL**: Proficiency in writing raw SQL queries and working with relational databases like PostgreSQL, MySQL, or SQLite.
  + **Django Migrations**: Handling database migrations, schema changes, and version control for the database using Django’s migration system.
  + **Database Optimization**: Experience with optimizing database queries, using indexes, and improving performance for large datasets.

## Version Control (Git)

* + **Git Basics**: Experience with Git for version control, including cloning, branching, merging, and using Git workflows.
  + **GitHub or GitLab**: Familiarity with remote repositories for code collaboration and deployment, handling pull requests, and code reviews.

## Testing and Debugging

* + **Unit Testing**: Writing unit and integration tests using Django’s testing framework or external libraries like Pytest.
  + **Debugging**: Proficiency in debugging Python and Django applications using tools like Django Debug Toolbar, logging, and error monitoring systems.
  + **TDD (Test-Driven Development)**: Knowledge of Test-Driven Development (TDD) methodologies is a plus for building robust, reliable applications.

## Deployment and DevOps

* + **Server Setup**: Understanding how to deploy Django applications to production environments using web servers like Nginx or Apache.
  + **Cloud Platforms**: Experience with deploying applications to cloud platforms like AWS, Heroku, DigitalOcean, or Google Cloud.
  + **CI/CD Pipelines**: Knowledge of setting up Continuous Integration and Continuous Deployment (CI/CD) pipelines for automating testing and deployment.
  + **Containerization**: Familiarity with Docker for containerizing Django applications and managing environments.

## APIs and Web Services

* + **RESTful APIs**: Experience in building, consuming, and maintaining RESTful APIs using Django REST Framework (DRF).
  + **GraphQL**: Familiarity with GraphQL for API development (optional, but increasingly popular).
  + **OAuth & JWT**: Knowledge of OAuth and JWT (JSON Web Tokens) for secure API authentication.

## Asynchronous Task Queues

* + **Celery**: Experience with Celery for handling asynchronous tasks in Django, including task scheduling and queuing with Redis or RabbitMQ.

## Security Best Practices

* + **Django Security Features**: Knowledge of Django’s security features such as Cross-Site Request Forgery (CSRF) protection, SQL injection

prevention, secure password storage, and Cross-Site Scripting (XSS) prevention.

* + **OWASP Principles**: Familiarity with common security vulnerabilities (e.g., OWASP Top 10) and how to prevent them in web applications.

## API Integrations

* + **Third-Party API Integration**: Ability to integrate third-party APIs (e.g., payment gateways, social authentication) into Django applications.
  + **Web Scraping**: Experience with libraries like BeautifulSoup or Scrapy for web scraping tasks (if applicable).

## Task Automation

* + **Management Commands**: Ability to create custom Django management commands for automating routine tasks within applications.

## Understanding of Agile Methodology

* + **Agile & Scrum**: Familiarity with agile development practices and tools such as Jira, Trello, or Asana for project management, collaboration, and iterative development.

## Other Useful Tools and Skills

* + **Virtual Environments**: Knowledge of creating and managing virtual environments using tools like virtualenv or pipenv.
  + **Package Management**: Familiarity with Python package management using pip or poetry for handling project dependencies.
  + **Data Structures and Algorithms**: Good understanding of data structures and algorithms to optimize code performance and solve complex problems efficiently.

## Soft Skills

* + **Problem Solving**: Strong analytical skills to break down complex problems and find practical, efficient solutions.
  + **Communication**: Ability to collaborate with cross-functional teams, including front-end developers, designers, and project managers.
  + **Time Management**: Managing tasks effectively, especially in fast-paced environments, and meeting project deadlines.

**WORK EXPERIENCE:**

## Django and Python Developer

**Fizy Technologies** – 22B POWA Complex, Falomo Ikoyi

**Dates of Employment**: (03/2018 - Present)

## Key Responsibilities:

* + **Developed and maintained** scalable web applications using Django and Python for clients in diverse industries (e.g., e-commerce, healthcare, education).
  + **Designed and implemented** RESTful APIs using Django REST Framework (DRF) to connect with front-end applications and third-party services.
  + **Optimized database queries** and managed complex database schemas using Django’s ORM, PostgreSQL, and MySQL for high-performance applications.
  + **Integrated third-party services** such as payment gateways (Stripe, PayPal), social login (OAuth), and external APIs (e.g., Google Maps, Twilio).
  + **Customized Django Admin** interface to allow non-technical users to manage content, users, and application configurations.
  + **Developed front-end features** using HTML5, CSS3, JavaScript (with jQuery, React, or Vue.js) to create responsive and dynamic user interfaces.
  + **Wrote unit and integration tests** using Django’s testing framework and Pytest to ensure the robustness and quality of the applications.
  + **Collaborated with cross-functional teams** (front-end developers, designers, product managers) using Agile/Scrum methodologies to deliver projects on time.
  + **Deployed and managed applications** on cloud platforms (AWS, Heroku, DigitalOcean), ensuring scalability, availability, and security.
  + **Used Git** for version control, collaborating on features with other developers, resolving merge conflicts, and handling pull requests for code reviews.
  + **Performed code reviews** to ensure adherence to best practices, maintainable code, and scalability.
  + **Wrote custom management commands** and handled background tasks with Celery for periodic task scheduling and asynchronous operations.
  + **Monitored application performance** using tools like New Relic and Django Debug Toolbar, identifying bottlenecks, optimizing performance, and ensuring fast response times.
  + **Implemented security best practices**, such as securing APIs with JWT tokens, CSRF protection, XSS prevention, and ensuring compliance with OWASP standards.

## Key Achievements:

* + Spearheaded the development of a multi-tier e-commerce platform that processed over 10,000 transactions monthly, leading to a 20% increase in company revenue.
  + Reduced page load times by 35% by optimizing database queries, implementing caching (using Redis), and minimizing API response times.
  + Successfully integrated real-time notifications and updates using Django Channels and WebSockets, improving user engagement for a social networking platform.
  + Built a CI/CD pipeline using Jenkins and Docker, reducing manual intervention in deployment and allowing for faster, more reliable software releases.
  + Improved code coverage to 90% by implementing extensive unit and integration tests, significantly reducing bugs and maintenance issues in production.

## Senior IT Support

**The Ever Hale Living** – 6C Olumo Street, Ikoyi Lagos

**Dates of Employment**: (07/2024 - Present)

## Key Responsibilities:

* + **Technical Troubleshooting**: Diagnose and resolve hardware, software, and network issues. With a programming background, they can delve into code-related issues, fix bugs, or provide solutions for software malfunctions.
  + **System Maintenance**: Perform regular updates, security patches, and optimize systems. Knowledge of scripting languages allows them to automate routine tasks, like backups or system monitoring.
  + **Software Development Support**: Assist development teams by identifying issues in code, configuring development environments, and managing version control systems.
  + **Application and Database Support**: Troubleshoot application errors, debug software, and assist in database queries or management, utilizing their programming skills.
  + **User Training and Support**: Help non-technical staff understand software or systems better, while also providing advanced insights for technical users on troubleshooting or improving workflow.

## IT Support

**Povezati Securit Limited** – 6 Olumo Street, Ikoyi Lagos

**Dates of Employment**: (11/2022 – 06/2024)

## Key Responsibilities:

* + **Technical Troubleshooting**: Diagnose and resolve hardware, software, and network issues. With a programming background, they can delve into code-related issues, fix bugs, or provide solutions for software malfunctions.
  + **System Maintenance**: Perform regular updates, security patches, and optimize systems. Knowledge of scripting languages allows them to automate routine tasks, like backups or system monitoring.
  + **Cybersecurity**: Identify vulnerabilities and assist in securing networks and applications by writing or analyzing code to mitigate risks.
  + **Custom Scripting and Automation**: Develop scripts to automate repetitive tasks, manage data flow, or monitor system health. This reduces downtime and increases efficiency in IT operations.
  + **Software Development Support**: Assist development teams by identifying issues in code, configuring development environments, and managing version control systems.

## Software Developer (Internship)

**Girl’s Technical College** – Agba, Abakaliki Ebonyi State

**Dates of Employment**: (06/2016 - 04/2018)

## Key Responsibilities:

* + Taught students ICT lessons
  + Maintenance of School Portal and made sure information are up to date
  + Database recording keeping
  + Uploading of students result on school portal
  + Generating scratch card for students to check results
  + Contributed to building internal tools using Python for automating repetitive tasks such as data collection, cleaning, and report generation.
  + Wrote Python scripts to interact with APIs, parse JSON/XML data, and store results in databases for further analysis.

# SKILLS DEMONSTRATED IN WORK EXPERIENCE:

* + Proficiency in **Django** and **Python** for backend development.
  + Strong understanding of **REST API** development using Django REST Framework (DRF).
  + Experience in working with **PostgreSQL**, **MySQL**, and other relational databases.
  + Effective use of **Git**, **Docker**, and **CI/CD pipelines** for smooth development and deployment processes.
  + Understanding of **front-end development** and integration with back- end systems.
  + Familiarity with cloud deployment (AWS, Heroku) and **asynchronous task management** (Celery).
  + Ability to work in **Agile/Scrum** environments, collaborating with multi- disciplinary teams.

# REFEREES

*Available upon Request*