

UGWOKE EDWARD CHINEDU

Software Developer

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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

CS50's Web Programming with Python and Javascript - Edx (Harvard)	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

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. Asynchronous Task Queues

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

10. 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.

11. 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).

12. Task Automation

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

13. 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.

14. 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.

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- **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

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