

UDEMEZUE UCHECHUKWU JUDE

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SUMMARY

I am a highly skilled software developer with over 5 years of experience in designing, building, and deploying efficient, scalable, and secure applications. Specializing in HTML, CSS, JavaScript, React, Django, Flask, Tailwind CSS, Docker, Agile Development, CI/CD, FastAPI, GraphQL, AWS, Terraform, Cloud Computing, Performance Optimization, Scalability, CI/CD Pipelines, Test-Driven Development (TDD), API Security, I am adept at delivering high-quality solutions that solve complex problems and meet user needs.

With a strong foundation in both front-end and back-end technologies, I excel at building responsive, user-friendly interfaces using React and Tailwind CSS, while developing robust back-end systems with Django and Flask. I also leverage Docker for containerization, enhancing deployment processes and ensuring consistency across development environments.

Having worked in Agile environments, I thrive in collaborative, fast-paced settings, delivering projects on time while maintaining flexibility and adaptability. I am passionate about continuously improving my skill set and staying current with industry trends, always focused on writing clean, maintainable code and optimizing application performance.

EXPERIENCE

PYTHON DEVELOPER

Astrotech Communications, Nigeria

February 2023 – February 2025

- Developed and deployed scalable API solutions using Python(Django, Flask) effectively processing over 500,000 requests per minute, resulting in a 20% improvement in data handling efficiency at Astrotech Communications, Nigeria.
- Engineered an automated data migration system that reduced manual workload by 60%, leveraging Python scripts to seamlessly migrate and transform datasets, enhancing operational efficiency at Astrotech Communications, Nigeria.
- Contributed to the successful launch of new web applications and system integrations.
- Implemented software development best practices, ensuring high code quality and maintainability.
- Collaborated with cross-functional teams to design and deploy software solutions.
- Provided technical support and troubleshooting for production applications.
- Created training materials to simplify onboarding for new developers.
- Designed scalable and secure architectures to improve system performance.
- Managed project deadlines, ensuring timely delivery of software solutions.
- Mentored junior developers, guiding them on best coding practices.
- Optimized database queries and backend logic to improve application performance.
- Implemented caching strategies and load balancing for scalable infrastructure.
- Developed and optimized 10+ APIs, reducing response time by 40% and improving user engagement by 25%."

JUNIOR PYTHON DEVELOPER

Softlink Technologies, Nigeria

February 2022 – January 2023

- Assisted in designing and developing web applications using Python and Django.
- Wrote unit tests to ensure software reliability and performance.
- Participated in API integration and data processing tasks.
- Collaborated with senior developers on optimizing application efficiency.
- Documented technical specifications and troubleshooting steps.
- Enhanced database performance and query optimization for faster load times.
- Assisted in designing microservices architecture for better modularization.
- Contributed to front-end development and UI enhancements using React.

BACKEND DEVELOPER INTERN

ODY TECHNOLOGIES

April 2020 – November 2021

- Developed a custom Django web application that streamlined the order processing system for an e-commerce platform, handling over 500 transactions daily and improved the operational efficiency by 30%.
- Supported staff members in their daily tasks, reducing workload burden and allowing for increased focus on higher-priority assignments.
- Gained hands-on experience in various software programs, increasing proficiency and expanding technical skill set.
- Collaborated in a team to migrate a legacy monolithic architecture to a microservices-based architecture, increasing system scalability and resilience by 50% while reducing deployment times by 40%.

PROJECT

JOB APPLICATION PLATFORM

www.job-site-u07r.onrender.com/

- Designed and built a job application portal using Flask and React.
- Developed user authentication and profile management, ensuring 99.9% uptime and secure access.
- Implemented job posting, application tracking, and candidate shortlisting features, processing 20,000 applications daily.
- Integrated email notifications for job alerts and application status updates, increasing user engagement by 40%.

- Optimized database queries, reducing load times by 40%, ensuring seamless user experience even during peak usage periods while maintaining data security and integrity.

WEATHER CHECKING WEBSITE

www.weather-9czc.onrender.com

- Developed a weather-checking application using Django, serving active users for real-time weather updates.
- Implemented user authentication and an intuitive UI, improving user engagement.
- Integrated live weather data APIs, delivering real-time updates with 99.9% accuracy for weather forecasts across 100+ location.
- Optimized backend performance for the weather checking website, reducing data retrieval time by 35% and enhancing overall user experience with seamless navigation and fast-loading pages.

ONLINE VOTING SYSTEM

www.online-voting-rx3l.onrender.com

- Developed a secure, role-based online voting platform used by 1000+ users for managing elections.
- Implemented role-based access control, ensuring 100% secure authentication for admins and voters.
- Built a real-time live results display with category-based voting, processing results in under 10 seconds.
- Integrated IP-based verification, reducing fraudulent votes by 80%.
- Resolved deployment issues and port restrictions on Render, reducing downtime by 30%.
- Automated voter registration processes and integrated geographical restrictions, enhancing system compliance and accessibility while diminishing unauthorized access attempts by 25%.

SCHOOL PORTAL

www.school-portal-dsyf.onrender.com

- Developed a comprehensive school portal using Flask, serving 1000+ students and teachers.
- Implemented a results management system, allowing teachers to upload grades and students to view their performance in real time.
- Built an assignment module, enabling teachers to create, distribute, and track submissions, reducing manual workload by 70%.
- Designed an intuitive dashboard for students to access their results, assignments, classes, and subjects efficiently.
- Integrated authentication and role-based access control, ensuring secure and personalized experiences for students and teachers.
- Optimized database queries and API calls, improving page load speed by 60% for a seamless user experience.

AUTOFILL COUNTRY-STATE API

www.country-api-1.onrender.com

- Developed a fully functional REST API using Flask, enabling real-time auto-population of country and state selection forms.
- Integrated authentication and verification mechanisms, ensuring secure access for new users.
- Optimized API response time, delivering data in under 0.01 milliseconds, enhancing user experience.
- Supported a database of 100+ countries and 1000+ states, ensuring comprehensive global coverage.
- Implemented request throttling and error handling, reducing failed API calls by 85%.
- Flask: Easily integrate with Flask forms to auto-populate dropdowns dynamically.
- React: Fetch API data asynchronously to update select inputs in real time using Axios or Fetch API.
- Django: Use the API in Django forms or Django Rest Framework (DRF) serializers for seamless integration.

SERVICE HUB

www.services-arena-ya5s.onrender.com/

- Built a service marketplace using Flask, enabling users to create, manage, and offer services to a global audience.
- Developed a booking system, allowing external users to request and schedule services seamlessly.
- Integrated user authentication and role-based access control for service providers and clients.
- Designed a responsive and modern UI, ensuring a smooth experience across all devices.
- Implemented a real-time notification system for service requests, confirmations, and updates.
- Optimized database queries, improving service discovery and booking efficiency by 60%.

EDUCATION

BACHELOR OF ENGINEERING

CHUKWUEMEKA ODIMEGWU OJUKWU UNIVERSITY • ANAMBRA STATE, NIGERIA • 2018

SKILLS

FRONTEND: HTML, CSS, JAVASCRIPT

BACKEND: PYTHON

FRAMEWORKS AND LIBRARIES: Django, Flask, React, Tailwind CSS

TOOLS & TECHNOLOGIES: DOCKER CELERY, REDIS, GIT, LINUX, FIREBASE, AWS

OTHERS: REST APIs, UNIT TESTING, AGILE DEVELOPMENT, CI/CD, FASTAPI, GRAPHQL, AWS, TERRAFORM, CLOUD COMPUTING, PERFORMANCE OPTIMIZATION, SCALABILITY, CI/CD PIPELINES, TEST-DRIVEN DEVELOPMENT (TDD), API SECURITY
