

OKUBULE TEMITOPE PAUL

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Google IT Support Certified · Cisco Certified Junior Network Engineer

PROFESSIONAL SUMMARY

Results-driven Intermediate Developer and Software Engineer with 2+ years of experience delivering scalable web applications, IoT systems, and AI-integrated platforms. Proficient in Python (Django, DRF), JavaScript (React.js), Java, C++, HTML, and CSS, with strong experience in RESTful APIs, PostgreSQL, SQLite, Redis, Celery, and Git. Demonstrated ability to design and ship production-ready systems, from e-commerce platforms and SaaS products to embedded IoT solutions, backed by comprehensive system design documentation. Certified in IT Support (Google), Networking (Cisco, Fortinet). Currently completing a B.Sc. in Computer Science (GPA: 4.31/5.00).

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, Java, C++, HTML, CSS, Wordpress, Elementor, WPBakery

Frameworks & Libraries: React.js, Django, Django REST Framework, OpenCV, pyTorch

Databases & Queues: PostgreSQL, SQLite, MySQL, Redis, Celery, XAMPP

APIs & Integrations: RESTful APIs, WebSockets, WebRTC, Paystack (webhooks), JWT Authentication, AI integration.

DevOps & Tools: Git, GitHub Actions (CI/CD), VSCode, NetBeans, Postman, Arduino (IoT), Raspberry Pi, Linux (systemd), SSL/TLS

Networking & IT: TCP/IP, Network Setup & Troubleshooting, Cisco Packet Tracer, Static IP Config, System Upgrade, General IT support and Systems Troubleshooting

System Design: Architecture Diagrams, Use Case Diagrams, ER Diagrams, Data Flow Diagrams, Monolithic and Micro-service architecture.

PROFESSIONAL EXPERIENCE

Software Engineer / Technical Consultant (Return Offer) | InstinctWave Group

Nigeria · July 2025 – March 2026

- Designed and independently shipped a production-ready MVP event management system in under 2 weeks, eliminating the company's reliance on 3+ third-party tools and cutting event coordination overhead by an estimated 40%.
- Presented system design and Level 1 Dataflow Diagram directly to the CEO, earned sign-off, and delivered a fully functional solution independently.
- Improved website load times and configured static IPs for office printers, reducing operational friction across the team.
- Set up CI/CD pipelines using GitHub Actions to automate deployments across company projects, reducing manual release overhead.
- Partook in the redesign and technical overhaul of most of the company's WordPress websites, including a total restructuring theme architecture, compressing and lazy-loading assets of the company's main website, and implementing caching strategies that reduced average page load time by ~60%.
- Introduced multilingual support (English + French) on Africa Public Sector Awards website using WordPress, expanding platform accessibility to Francophone African markets and broadening the potential audience by an estimated 30%+.
- Pitched and scoped a strategy to convert company websites into mobile applications to improve user experience.

IT Support Specialist | Oyinlade Chambers

Ikeja, Lagos · Dec 2020 – Oct 2022

- Designed, deployed, and managed the full network infrastructure of the firm, ensuring secure and reliable connectivity for all staff.
- Digitized 100% of the firm's legal document archive, converting physical files to electronic formats and improving retrieval efficiency significantly.
- Maintained all computer systems, peripherals, and office printers, achieving near-zero downtime for daily business operations.

IT Support Intern | Allied Computers Limited

Illupeju, Lagos · Jul 2024 – Sep 2024

- Diagnosed and resolved hardware/software issues across 400+ computer systems using structured troubleshooting methodologies.
- Upgraded RAM, HDDs, and SSDs on 400+ machines for company clients and internal systems, improving average system boot and load times by ~50% and meaningfully extending hardware lifespan.
- Managed daily print operation, troubleshot print errors and maintained printer hardware to ensure consistent uptime.

SOFTWARE ENGINEERING PROJECTS

1. Automatic Number Plate Recognition (ANPR) System

- Built a computer vision system that detects and reads vehicle number plates in real time using EasyOCR for optical character recognition and OpenCV for image processing and plate region detection.
- Implemented preprocessing pipeline including grayscale conversion, noise filtering, and contour detection to isolate plate regions from live or static image input with high accuracy.
- Designed the system to be extensible for integration with security/surveillance platforms, traffic control systems for automated vehicle logging.

Tech Stack: Python · OpenCV · EasyOCR · Computer Vision

2. Offline LAN Communication Platform (Raspberry Pi)

- Engineered a fully offline LAN communication platform on a Raspberry Pi configured as both a WAP and web server, supporting up to 15+ simultaneous users with zero internet dependency and zero recurring infrastructure cost.
- Built the backend server in Python (Django/socket-based), handling WebSocket connections for real-time bi-directional messaging, file transfer streams, voice note uploads, and WebRTC-based peer-to-peer video call signalling between connected clients.
- Developed the frontend as a responsive single-page web application using HTML, CSS, and JavaScript, supporting instant messaging, file sharing, voice note recording and playback, and in-browser video calls, all accessible from any device connected to the Pi's hotspot.
- Provisioned and self-signed SSL/TLS certificates to encrypt all client-server traffic over HTTPS and WSS, enabling secure WebRTC media streams and preventing plaintext data exposure on the local network.
- Configured the Raspberry Pi to auto-launch the WAP, Python server, and web application on boot using systemd service units, ensuring zero-touch startup and unattended operation after power-on.

Tech Stack: Python · Django · WebSockets · WebRTC · HTML · CSS · JavaScript · SSL/TLS · Raspberry Pi · Linux (systemd) · Networking

3. Opportune – Student Opportunity Platform (In Development)

- Building a SaaS-level platform aggregating verified global scholarships, internships, and fellowships, targeting 1,000+ students at launch, with a free access tier and premium one-time-purchase Application Packs (guides, essays, checklists).
- Implemented one-time purchase Application Packs (guides, sample essays, checklists), an essay submission and admin review system for personalised feedback, and a community space with posts, likes, and comments.
- Architected secure JWT-based authentication, Paystack payment integration with real-time webhook confirmations, and background task automation using Celery and Redis.
- Designed and built the backend API with Django REST Framework and PostgreSQL; React-based frontend currently in active development.

Tech Stack: Django · Django REST Framework · PostgreSQL · Celery · Redis · Paystack Webhooks · JWT · Postman

4. Hotel Management System – AI-Integrated Desktop Application

- Built a full-scale hotel management system featuring role-based access control with multiple user roles(admin, manager, accountant, housekeeping, frontend), authentication and authorization, layered security mechanisms, and payment integration.
- Integrated a recommendation and improvement engine powered by the Meta Llama 3.0 AI model to provide intelligent insights for hotel administrators.
- Produced comprehensive system design documentation for both technical and non-technical stakeholders, including high-level architecture designs, use case diagrams, ER mappings, and data flow diagrams.

Tech Stack: Django · SQLite · Meta Llama 3.0 AI · System Design & Documentation

5. Soil Moisture Detection with Automatic Water Pump – IoT/Embedded System

- Designed and simulated a complete IoT circuit for automated soil moisture monitoring and irrigation using Arduino UNO, featuring a 16x2 LCD display, Piezo buzzer low-moisture alert, NPN transistor-driven water pump control, and LED status indicator.
- Completed full circuit design and simulation in Tinkercad; physical component assembly in progress.
- Planned web-based and mobile dashboard integrations for remote monitoring.

Tech Stack: Arduino UNO · C++ · Tinkercad · Circuit Design · IoT

6. Event Management MVP – InstinctWave Group

- Independently designed and delivered a production-ready internal event management platform in under two weeks, replacing the company's dependency on multiple third-party tools.
- Created a Level 0 and 1 DFD and system design proposal pitched directly to the CEO, received approval, and shipped ahead of the ADEA 2025 event in Kenya.

Tech Stack: Django · HTML · CSS · JavaScript · PostgreSQL

7. Ajayi Crowther University Utility System

Served as backend developer on a 7-module university platform awarded 1st Place Runner-Up at ACU Science Fair 3.0, modules included biometric attendance, AI-generated exam questions, a healthcare chatbot, virtual campus tour guide, and role-based dashboards for 3 user types (admin, lecturer, student), collectively streamlining administrative workflows across multiple university departments.

Tech Stack: Django · Django Rest Framework · Python · MySQL · NextJS

EDUCATION

Bachelor of Science, Computer Science : Ajayi Crowther University, Oyo

GPA: 4.31 / 5.00 (as at February, 2026)

CERTIFICATIONS

- Google IT Support Professional Certificate
- Cisco Computer Hardware Basics
- Fortinet Networking Fundamentals

ACHIEVEMENTS & EXTRACURRICULARS

- Return Offer – Software Engineer / Technical Consultant at InstinctWave Group, earned through project delivery and initiative during internship.
- 1st Place Runner-Up, Faculty of Natural Sciences Science Fair 3.0, Ajayi Crowther University (Backend Developer, University Utility System).
- 2x Volunteer and Team Lead(Backend Track), Google Developer Group (GDG) – Ajayi Crowther University Chapter: supported and led peer learning, tech workshops, and student-led projects.
- Faculty Recognized Student Lecturer (Logic & Circuit Design) ,Ajayi Crowther University: one of a select number of students formally acknowledged by the Faculty for independently delivering peer tutorials on Logic and Circuit Design, covering digital logic, circuit analysis, and hardware fundamentals ,demonstrating deep technical knowledge, strong classroom communication skills, and a commitment to knowledge sharing within the academic community.