

Bimalendu Swain

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PROFESSIONAL SUMMARY

Python backend developer with **3+ years of experience** building scalable, secure web applications using Django and Django REST Framework.

Delivered production-grade platforms in education, analytics, automation, and student care domains — impacting **1000+ active users/month**.

Proficient in implementing **JWT-secured role-based access**, designing REST APIs, and integrating third-party services like Wonde API.

Experienced in report automation (PDF/Excel), background job queues (Celery + Redis), and DevOps workflows using Docker and Git.

Deployed and managed scalable web applications on AWS EC2 instances with secure SSH, instance provisioning, and high availability.

Known for delivering clean, maintainable code with strong focus on performance, security, and user-centric features.

TECHNICAL SKILLS

Languages: Python 3+, HTML, CSS, Bootstrap

Frameworks & Libraries: Django, Django REST Framework (DRF), FastAPI, Celery, Redis, JWT, django-fpdf, WeasyPrint

Databases: PostgreSQL, MySQL

Reporting & Export: pandas, openpyxl, csv

API Tools: DRF Serializers, Viewsets, Swagger docs

Auth & Security: JWT, HTTPS/TLS, Role-Based Access Control

Tools & DevOps: Git, Docker, AWS EC2, Postman, VS Code, Sublime Text

Integrations: Wonde API, Wonde MyLogin

Platforms: Linux, Windows

WORK EXPERIENCE

DreamzTech Solutions (Remote)

Software Developer Engineer

Kolkata, IN

Jul 2022 – Mar 2025

- Led backend development for multiple B2B platforms in edtech, student care, and retail analytics domains impacting **1000+ users/month**.
- Implemented secure **JWT-based role access control** across user types (Admin, Regional Manager, Analyst, Teachers, Students).
- Developed REST APIs using Django REST Framework (DRF) with pagination, filtering, and Swagger documentation.
- Integrated third-party services including **Wonde API** for real-time school data sync and SSO via Wonde MyLogin.
- Created asynchronous tasks using **Celery + Redis** for invoice generation, session logging, and email dispatching.
- Deployed and maintained scalable applications on **AWS EC2**, including instance setup, security groups, and SSH access.
- Worked on client projects for **AbinBev (TestOps)**, **UK-based educational clients** (Rockerbox, Beacon Pathway).
- Automated PDF report generation using `django-fpdf`, `WeasyPrint`; implemented Excel/CSV exports using `pandas` and `openpyxl`.
- Improved platform automation by **60%**, reduced manual admin work by integrating one-click reports with dynamic filters.
- Collaborated with frontend team on API integration, and DevOps team for Docker-based deployments and CI testing.

Stackup Technologies Solutions (Remote)

Software Developer Engineer

Chennai, IN

Oct 2021 – Jun 2022

- Contributed to development of Stackbloc IT Automation Platform for automating server-side infrastructure tasks.
- Created and maintained **50+ modular playbooks** for job scheduling and asset configuration across cloud VMs.
- Built APIs for orchestration of automation jobs and metadata logging using Django and PostgreSQL.
- Enabled real-time job feedback with logs and status indicators to support DevOps monitoring.
- Integrated error logging and rollback features, improving recovery from failed automation jobs by **35%**.
- Optimized performance of key endpoints, reducing average response time by **30%**.

M.M.M Nodal Highschool

Computer Trainer cum Teacher

Odisha, IN

Sep 2014 – Mar 2018

- Instructed **300+ students** on foundational IT concepts, including MS Office, computer hardware, and safe internet use.
- Designed lesson plans and practical lab exercises to align with state curriculum and digital literacy goals.
- Maintained and upgraded lab infrastructure including system software, antivirus tools, and peripherals.
- Conducted quarterly assessments and improved student pass rates in computer practicals by **25%**.

KEY PROJECTS

Rockerbox – KS1/KS2 Non-Fiction Learning Platform (DreamzTech – Client: UK-based)

- Developed a **multi-award-winning educational platform** deployed in **500+ schools**, promoting global topics and inclusivity for KS1/KS2 students.
- Implemented a **robust role-based access system** for Admins, Teachers, and Students with JWT-secured APIs.
- Built a CMS for Admins to manage non-fiction stories, images, quizzes, and assignments.
- Enabled teachers to create class-wise tasks, assign readings, monitor student progress, and generate quiz reports.
- Designed student-facing endpoints to fetch content, submit answers, and receive performance feedback.
- Integrated **Wonde API** for automated school, staff, and student data sync and enabled secure SSO via **Wonde MyLogin**.
- Created Celery-based background tasks for quiz evaluation, report generation, and performance alerts.
- Built dynamic performance dashboards for teachers and admins showing engagement trends and reading history.

Beacon Pathway – Student Care Management System (DreamzTech – Client: UK-based)

- Built a secure, scalable backend for managing care support of **neurodivergent children** (ADHD, ASD, AHC, Dyslexia, etc.).
- Developed a flexible session scheduling engine allowing Admins to assign sessions (30min, 1hr, custom) to trained support workers.
- Created a dedicated portal for support workers to log session details, submit timesheets, and track daily engagement.
- Implemented a multi-stage approval system requiring digital sign-off from both Support Worker and Finance Admin.
- Built PDF generation features (via `django-fpdf`) for auto-generating downloadable timesheets, session logs, and invoices.
- Enabled dynamic invoice generation, bulk PDF downloads, and session-wise activity tracking for **1000+ sessions/month**.
- Implemented **role-based dashboards** for Admin, Finance Admin, and Super Admin with tiered access and analytics.

TestOps – Beer Sales Analytics (DreamzTech – Client: AbinBev)

- Built a secure backend system to track beer sales across regions, distributors, and time frames for **multiple user roles**.
- Implemented JWT-secured role-based APIs for Admins, Regional Managers, and Analysts, each with scoped data access.
- Enabled PDF reporting using `django-fpdf`, `WeasyPrint` for weekly/monthly summaries and comparison charts.
- Integrated CSV/XLSX exports via `pandas`, `openpyxl` with filters for area, distributor, date range.
- Designed RESTful APIs with Swagger docs, pagination, and error-handling across endpoints.

Stackbloc IT Automation (DreamzTech / Stackup)

- Developed 50+ reusable playbooks to automate infrastructure provisioning, configuration, and reporting across **500+ VMs**.
- Created APIs to launch, monitor, and rollback IT tasks, improving DevOps turnaround time by **30%**.
- Enabled real-time job logging and feedback for remote IT teams with secure API access.

EDUCATION

U.N Auto College (Utkal University)
B.Sc. Computer Science

Odisha, IN
Graduated