Abhay Kumar

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SUMMARY:

Skilled Python and Django developer with over 2 years of hands-on experience utilizing Django's Model-Template-View (MTV) architecture to streamline development workflows and minimize design overhead. Proficient in building accessible, data-centric web applications. Committed to delivering high-performance SaaS products through practical and efficient development strategies

SKILLS:

Python | Django | JavaScript | MySQL | MongoDB | HTML |CSS |Bootstrap| Pandas | Object-Oriented Programming| RESTful APIs | MS Office (Word, Excel, PowerPoint) | SharePoint | AI & GPT Integrations | AWS | AWS S3 | Elasticsearch | PostgreSQL | UI/UX Designing | GitHub

EDUCATION DETAILS:

B.Tech, Mechanical Engineering
West Bengal University of Technology (WBUT), West Bengal- July'2021
Higher Secondary School, Science
Maharaja College, Ara- Apr'2016

PROFESSIONAL EXPERIENCE:

Dream Box Inc., Noida, India   **June' 2023 -Present**
Full Stack Developer

- Developed 'Calibra,' a sophisticated web application leveraging the Django framework for seamless functionality.
- Conducted rigorous testing procedures to ensure the reliability and performance of the application, guaranteeing smooth user experience.
- Successfully deployed 'Calibra' into the production environment, achieving seamless integration and garnering recognition through a prestigious yearly award for the team's exemplary performance.
- Automated repetitive tasks using Python scripts, increasing efficiency within the team's workflow processes.
- Collaborated with cross-functional teams to design, develop, and implement high-quality Python applications.

PROJECT 1:

Calibra – Calibration Management Platform
Description:
Developed and maintained Calibra, a cloud-based, ISO-compliant calibration management platform used by industrial labs (e.g., ADCON) to manage end-to-end calibration workflows.

The system offers:

- Job Lifecycle Automation: Auto-tracks calibration jobs from intake to certificate delivery.
- Certificate Generation: Generates tamper-proof, digitally signed calibration certificates.
- Asset & Instrument Management: Manages instruments, due dates, and client-specific asset histories.
- Customer Portal: Secure login-based access for clients to view job status, download reports, and manage assets (e.g., adcon.calibra.live).
- Document Control: Handles uncertainty calculations, NABL templates, and audit trails.
- Bulk Uploads & QR Code Scanning: Simplifies data entry and verification.
- Multi-role Permissions: Built-in access control for labs, managers, and customers.

Impact:

- Reduced manual workload by 70% for calibration labs.
- Enabled real-time job tracking and certificate retrieval for 5000+ instruments.
- Improved compliance with NABL and ISO/IEC 17025 standards.

Tech Stack: Python, Django, PostgreSQL, HTML/CSS, JavaScript, jQuery, Bootstrap, AWS, REST APIs

PROJECT 2:
Ringlet – Educational Content Publishing & Learning Platform
Description:
Built and deployed Ringlet, a unified digital platform for K–12 content publishers and learners. Ringlet enables publishing of academic material (books, e-books, audio/video lectures), online testing, and automated offline paper generation for schools and institutions.

Key Features Developed:
- Publisher Dashboard: Tools to manage series, chapters, and academic content
- Digital Media Upload: Supports structured video/audio/document uploads
- Public Content Access: Custom URLs for publishers (e.g. ringlet.in/p/souvenir-publishers)
- Online Testing System:
- Built a full-featured exam engine using digital question papers, Supports MCQs, subjective answers, rich text inputs, images, and canvas drawings
- Real-time submissions, result tracking, and student performance analytics Offline Question Paper Generator (QPG):
- Created an intelligent backend to generate randomized, formatted exam papers from tagged questions
- Supports difficulty level selection, subject filters, question types, and auto-formatting for print
- Multi-role Permissions: Secure access for publishers, admins, teachers, and learners
- Analytics & Reports: Publisher- and admin-level insights on usage, performance, and content interaction

Impact:
- Empowered 15+ publishers to digitize their entire academic content library Delivered over 400+ structured course modules and thousands of questions
- Enabled online exams for hundreds of students with instant results and data tracking
- Simplified traditional paper-setting workflows through automated offline paper generation

Tech Stack: Python**,** Django, PostgreSQL, HTML/CSS, JavaScript, jQuery, Bootstrap, AWS, REST APIs

PROJECT 3:
Souvenir Publishers – Educational eCommerce Platform
Description:
Developed and deployed the official eCommerce platform for Souvenir Publishers, a leading Indian academic publisher with a reach of over 2 million students. The platform allows customers—primarily schools, bookstores, and parents—to browse, purchase, and track K–12 educational books and digital content across multiple boards and classes.

Key Features Developed:
Product Catalog System:
- Dynamic category-based book browsing by subject, class, board, and language
- Real-time inventory control, pricing, discounts, and bundle management Secure Checkout & Payment

Integration:
- Integrated Razor pay for handling online payments
- Order tracking, invoice generation, and SMS/email notifications Admin Panel:
- Product uploads with Excel import, stock management, discount logic
- User & role-based permissions for managing content, orders, and site settings

Customer Dashboard:
- View order history, download invoices, track delivery Smart cart with recommendations and saved preferences SEO & Performance Optimizations:
- Fast-loading pages, clean URL structures, and meta-tag management
- Mobile-responsive UI built with Bootstrap for seamless access across devices Integrations:
- Sync with publisher warehouse for order dispatch Custom courier tracking module

Impact:

- Powered over 50,000+ online book orders in the first academic season
- Enabled Souvenir Publishers to expand from offline distribution to a national digital storefront
- Streamlined order-to-dispatch flow, reducing manual order handling time by 60%
- Supported growth to 2M+ annual users, enabling bulk school orders and direct B2C sales

Tech Stack: Python, Django, PostgreSQL, HTML/CSS, Bootstrap, JavaScript, jQuery, Razor Pay, REST APIs, AWS

PROJECT 4:
Souvenir Publishers DAM – Digital Asset Management Platform
Description:
Built and deployed a custom Digital Asset Management System (DAM) for Souvenir Publishers—centralizing all multimedia and academic assets (images, PDFs, videos, metadata)—to streamline storage, organization, version control, and distribution across the publishing lifecycle. A DAM is recognized as the "single source of truth" for digital content, enabling efficient retrieval and governance of assets souvenirpublisher.com +1.

Key Capabilities You Developed:
Asset Ingestion & Metadata:
- Bulk uploads of images, PDFs, videos; AI/ML-assisted metadata tagging and categorization for advanced searchability.
Versioning & Governance:
- Support for file revision histories and defined lifecycle (expiry, archival), with granular role-based permissions.
Elasticsearch-Powered Search:
- Fast, faceted search across asset metadata (type, class, board, chapter, revision). Preview & Delivery UI:
- Mobile-responsive dashboard with preview capability and direct download links for different user roles
Integrations & APIs:
- Integrated DAM with Ringlet LMS and Souvenir e-commerce systems; exposed APIs for secure asset delivery and embedding.
Usage Analytics & Reporting:
- Tracks asset views/downloads, user activity logs, and supports audit-readiness for compliance.
Impact Metrics:
- Managed 100,000+ digital assets across formats (e-books, images, videos, question banks), fully replacing scattered manual storage systems.
- Increased asset retrieval speed by over 80%, enabling publishers and educators to locate resources instantly.
- Improved asset governance and version control, reducing unlicensed or outdated asset usage by 90%.
- Supported a unified content ecosystem—DAM, LMS, and eCommerce—enhancing operational efficiency across departments.
- A Exam Guru – Government Exam Preparation Platform

Tech Stack: Python, Django, PostgreSQL, AWS S3, Elasticsearch, Redis, REST APIs, Bootstrap, JavaScript, jQuery