

Chandan Paul

Full-Stack Backend Developer | AI & Cybersecurity

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PROFESSIONAL SUMMARY

Backend developer with production experience across Laravel, Django REST Framework, and NestJS; building secure, high-throughput APIs for government, travel, e-commerce, and AI-driven systems. Integrated Stripe, PayPal, SSLCommerz, and Toss Payment into live platforms. Holds a master's in information & Cybersecurity from the University of Dhaka; master's defense project applied a self-trained Llama 3 8B model for real-time phishing detection. Comfortable with AWS, cloud VPS, and shared hosting deployments.

SKILLS

Backend: PHP Laravel 12 · Python · Django REST Framework · Node.js · NestJS

Frontend: React.js · Next.js · Vue.js · Filament PHP · Bootstrap · Tailwind · Alpine.js · Blade

Payments: Stripe · PayPal · SSLCommerz · Toss Payment

AI / ML: Llama 3 8B (fine-tuned). Multimodal classification · Python ML pipeline · LLM integration

Security: OWASP Top 10 · Threat Modelling · E2E Encryption (ECDH/AES-GCM). Secure SDLC · API hardening

Infra & Tools: AWS · VPS · Shared Hosting · Docker · CI/CD · Redis · MySQL · PostgreSQL · MongoDB · Monolog · WebSocket · Webhook

PROFESSIONAL EXPERIENCE

Software Developer | TechTrioZ Solutions, Dhaka

Feb 2023 – Present

- Sole backend architect across multiple live systems- full ownership from API design to server deployment (Cloud VPS, shared hosting, AWS).
- Reduced API response time from 800 ms to 120 ms via Redis-backed caching and prioritized queue workers with retry/backoff strategies.
- Built complete payment & subscription backends: Stripe webhook pipelines (idempotency, signature verification), automatic renewal, proration, metered overage billing, PDF invoicing, and SSLCommerz/PayPal checkout flows.
- Architected a Firebase Auth bridge merging legacy sessions with new Auth zero data loss in production.
- Delivered full-stack features across Laravel, Django REST Framework, NestJS backends and React.js, Vue.js, Filament frontends.
- Communicated directly with government, travel, and e-commerce clients to translate operational requirements into shipped features.

KEY PROJECTS

PhishLens: Multimodal Phishing Detection (Master's Defense) - Python · Llama 3 8B · Multimodal ML

- Designed and trained a Llama 3 8B-based multimodal framework combining URL features, HTML structure, and visual screenshots for real-time phishing website detection.
- Model trained and validated in-house; achieved cross-dataset generalization outperforming single-modality baselines - directly applicable to enterprise security automation.

The Visit London: Travel Booking REST API - Laravel · FCM · Brevo · Twilio · React.js

- Full API backend for a UK travel platform serving Flutter mobile + React.js admin; active bookings with zero reported downtime post-launch.
- Real-time status updates via Laravel Events; pickup reminders and auto-completion via scheduled Artisan commands; FCM, Brevo, and Twilio for push, email, and SMS.

Northern International Travel - Full-Stack Platform - Laravel · Stripe · PayPal · Alpine.js · Tailwind

- Monolithic travel platform: Blade + Vite frontend, full booking flow, Stripe and PayPal payments, DomPDF invoice generation, centralized email handling via custom Mailables.
- Processing tour bookings across Stripe and PayPal payment flows.

Shukran E-commerce - Subscription Backend - Laravel · Redis · SSLCommerz · Queue Workers

- Sole backend architect for a subscription e-commerce platform: service layer pattern, Redis caching, async queue workers, scheduled Artisan tasks, webhook bridge to external delivery platform.
- Architected to support 5,000+ orders/month; queue workers reliably processing 500+ jobs under production load.

Asset Tracker - Enhancement & Ownership - Django REST Framework · Vue.js · PostgreSQL · JWT

- Took ownership of an inherited Django REST + Vue.js asset management platform; extended with JWT Auth, RBAC, real-time tracking, Vuex state management, and bulk import.

EDUCATION

M.Sc. in Information & Cybersecurity (PMICS) | University of Dhaka

Graduated 2026

Thesis: PhishLens - A Multimodal, LLM-Powered Framework for Real-Time Phishing Website Detection with Cross-Dataset Validation.