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Professional Summary

Full-Stack Engineer focused on designing scalable, production-grade web platforms and enterprise SaaS applications. Experienced in Django, DRF, FastAPI, Next.js, PostgreSQL, Docker, and AWS, building secure APIs, multi-tenant architectures, and cloud-native systems with an emphasis on reliability, maintainability, and operational excellence.

Experience

- **Full Stack Developer — Bridgeon** May 2025 – Present
 - Developed scalable web applications using Django REST Framework, React, FastAPI, Next.js, and PostgreSQL following Clean Architecture and modular design principles.
 - Designed secure REST APIs implementing JWT authentication, role-based access control (RBAC), and layered permission enforcement.
 - Optimized database queries and request execution paths to improve backend performance and API responsiveness.
 - Built state-driven admin interfaces using React and Redux Toolkit for predictable state management and maintainable UI components.
 - Implemented Razorpay payment workflows with transaction verification, idempotent order handling, and failure recovery.
 - Deployed applications on AWS (EC2, RDS) using Docker, Nginx, Gunicorn, and GitHub Actions CI/CD.
 - Live demo: <https://noirel-perfume.vercel.app/>
- **Project Intern — Regional Technologies** Oct 2024 – Mar 2025
 - Built a cross-platform digital governance platform using Django and Flutter to streamline communication between citizens and local government authorities.
 - Designed a hierarchical governance model (District → Higher Authority → Panchayath → Citizens) with role-based access control (RBAC).
 - Developed REST APIs for citizen services, including service requests, complaint management, notifications, and community updates.
 - Implemented complaint escalation workflows to forward unresolved Panchayath-level issues to higher authorities.
 - Built an announcement system enabling Panchayath administrators to publish public notices, alerts, and service updates.
 - Developed community features including posts, media sharing, and citizen engagement within local governance networks.
 - Designed normalized PostgreSQL data models and optimized queries for efficient relational data access.

Technical Skills

- **Languages:** Python, JavaScript
- **Backend:** Django, Django REST Framework, FastAPI, REST API Design, JWT, RBAC, Microservices, Clean Architecture, Multi-Tenant Architecture
- **Frontend:** React.js, Next.js, Zustand, API Integration
- **Databases:** PostgreSQL, Supabase, Neon, Query Optimization
- **Cloud & DevOps:** AWS (EC2, RDS, S3), Docker, GitHub Actions, Nginx, Gunicorn
- **Engineering:** Scalable System Design, API Design, Performance Optimization, Asynchronous Processing, Multi-Tenant Architecture, CI/CD
- **Development Workflow:** Git, GitHub, Feature Branching, Pull Requests, Code Reviews, Agile Collaboration

Engineering Highlights

- Optimized frontend performance using debouncing, throttling, lazy loading, shimmer slides, memoization and efficient state management.
- Improved application resilience with React Error Boundaries and structured error handling.
- Built asynchronous workflows using Celery, Redis, and WebSockets for background processing and real-time updates.

Projects

- **Cipher Analytics — Privacy-Preserving Analytics Platform**
 - * Building a privacy-preserving analytics platform that performs statistical analysis on encrypted data using Fully Homomorphic Encryption (CKKS via TenSEAL), allowing computations without exposing sensitive information.
 - * Designed an asynchronous task processing architecture using Celery, Redis, and Celery Beat, with dedicated worker queues for compute-intensive, scheduled, and general background tasks.
 - * Developed machine learning pipelines for anomaly detection, clustering, and model explainability using SHAP, UMAP, and HDBSCAN.
 - * Built interactive dashboards using React, Three.js, React Three Fiber, and ECharts to visualize large-scale analytical results.
 - * Implemented real-time task monitoring using Django REST Framework, Django Channels, WebSockets, and Daphne to provide live progress updates.
 - * Improved application reliability through rate limiting, audit logging, static type checking, and automated security analysis.
 - * Containerized services with Docker to ensure consistent development and deployment environments.
 - * Optimized background task execution by routing workloads to dedicated queues, reducing contention between long-running and lightweight tasks.
- **WorkPilot AI — Multi-Tenant Workflow Automation Platform (Group Project)**
 - * Building a multi-tenant SaaS platform using Next.js, FastAPI microservices, and PostgreSQL to automate HR, IT, and organizational workflows.
 - * Implemented schema-based multi-tenancy with tenant-aware middleware for secure data isolation across organizations.
 - * Developed authentication services including JWT access/refresh tokens, HTTP-only cookies, RBAC, password reset, SSO, and tenant-aware authentication.
 - * Contributed to modular backend services following Clean Architecture and REST API design principles.
 - * Developed workflow features supporting approval processes, notifications, and department-specific business rules.
 - * Built tenant-aware frontend authentication flows using Next.js App Router, TypeScript, and Zustand.
 - * Used Docker, GitHub Actions, and collaborative Git workflows for development and CI/CD.
- **NOIRÉL — Luxury E-Commerce Platform (Production)**
 - * Built a full-stack e-commerce platform using React and Django REST Framework supporting the complete order lifecycle from product browsing to payment confirmation.
 - * Designed modular REST APIs for catalog management, cart operations, order processing, and payment verification.
 - * Implemented JWT-based authentication with protected routes, admin control panel, and role-based access control.
 - * Integrated Razorpay payment gateway with secure transaction validation, webhook verification, and failure recovery handling.
 - * Optimized frontend performance with efficient state management and lazy-loaded components, achieving a **100/100 Lighthouse performance score**.
 - * Deployed production environment on AWS infrastructure using Nginx + Gunicorn with automated CI/CD pipelines through GitHub Actions.

Education

- **Bachelor of Computer Applications (BCA)** — SAFA Arts & Science College Aug 2022 – Apr 2025

Certifications

- Python Django & Flutter Certification — Regional Technologies (2025)
- Certified Cyber Security Analyst (CCSA) — Red Team Hacker Academy (2022)