Kshitij Kotecha

Software Engineer | Backend-Heavy Full Stack | Django, React, Microservices
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EXPERIENCE

Backend Engineer | Rolling Arrays (Internship) **May 2025 - Present**

- Optimized REST APIs handling **10K+ daily transactions**, reducing response time by **30%** using **Django microservices**
- Designed validation logic to prevent data loss and duplication, ensuring **99.9% data integrity** in **SAP SuccessFactors sync**
- Built and maintained a **scalable microservices architecture** using Django, Python, and SQL
- Streamlined API testing and versioning using **Postman and Bruno**, improving maintainability across releases

EDUCATION ENROLLMENT

MIT-ADT (Pune) x Kalvium — B.Tech (Software Product Engineering) **2023-27**
GPA: 8.40/10 | **Relevant Coursework**: Data Structures, Algorithms, Database Management, System Design, MERN

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java
- **Backend:** Django, Django REST Framework, Node.js, Express
- **Frontend:** React, Vite, Tailwind CSS
- **Databases & Caching:** MongoDB, SQL, Redis
- **Systems & Architecture:** Microservices, Role-Based Access Control (RBAC), Server-Side Pagination, REST APIs
- **Security:** JWT, PBKDF2-SHA256, Cryptographic Hashing, OWASP Standards, SHA-256 Salting
- **DevOps & Tools:** Git, Docker, CI/CD, Postman, AWS

PROFESSIONAL SUMMARY

Software Engineer optimizing **Django microservices** to **handle 10K+ daily transactions** with **30% latency reduction** and **99.9% data integrity.** Architected **HIPAA-compliant healthcare platforms** implementing **3-tier RBAC** and **reducing query execution time by 85%** via **MongoDB aggregation pipelines**. Proficient in **Python, MERN stack**, and **deploying secure, scalable enterprise backends** using **Docker and AWS**.

PROJECTS

G1Card — Unified Medical Records Platform [Live Preview] | Github

Overview - Built an enterprise-grade healthcare platform enabling seamless medical data interoperability across hospitals, patients, and administrators with HIPAA-compliant security standards.

Key Features:

- Built a **HIPAA-compliant platform** with **3-tier RBAC (Admin → Hospital → Patient)**
- Optimised **MongoDB aggregation pipelines**, **reducing query execution time by 85%** with **indexed pagination**
- Implemented **PBKDF2-SHA256 authentication** (**100K iterations, 128-bit salt)** exceeding **OWASP standards**
- Built a finite state machine for hospital **approval workflow** (**PENDING → APPROVED/REJECTED**) with **MongoDB transactions**

Kiki Testimonial — Customer Testimonial Management Platform (SaaS) [Live Preview] | Github

Overview - Developed a full-stack web app for businesses to collect, manage, and display text & video testimonials via customizable forms and branded spaces. Integrated secure JWT auth, Cloudinary uploads, and an analytics dashboard with proper insights for better customer understanding.

Key Features:

- **User Authentication: Secure signup and login functionality** using **JWT (JSON Web Tokens)** to protect user accounts and used **SHA salting Methods** for **password protection.**
- **OTP-Based Authentication:** Ensures **Security** during **password reset.**
- **Real-Time Feedback Tracking:** Monitors and displays counts for text and video feedback submissions.
- **User-Friendly Interface:** Ensures **smooth navigation** and **management of feedback.**

TypeRacer — A Typing Game [Live Preview] | Github

Key Features:

- **Live WPM and CPM Tracking:** Displays **real-time Words Per Minute(WPM)** and **Characters Per Minute(CPM)** metrics for an **engaging typing experience**.
- **Competitive Gameplay:** Allows users to **race against each other**, enhancing **engagement** and **fun.**
- **Exciting User Interface:** An **interactive** and **thrilling design** with **exciting background music (BGM)** to **enhance the gaming experience.**