

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.

