MUHAMMED MURSHID

Backend Developer

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SUMMARY

Backend developer with hands-on experience building scalable web applications using Python, Django, and Django REST Framework. Skilled in developing secure REST APIs, multi-tenant architectures, asynchronous processing, and real-time systems. Comfortable managing database schemas, optimizing third-party integrations, and shipping production-ready features using Docker and AWS.

TECHNICAL SKILLS

Backend & Real-Time	Python, Django, Django REST Framework, Django Channels, PostgreSQL, Django ORM
Frontend	React.js, Redux, Vite, Tailwind CSS, HTML, CSS
Integrations & Async	Celery, Redis, Razorpay API, Cloudinary, Firebase (Cloud Messaging)
Cloud / DevOps	AWS EC2, AWS RDS, Docker, Nginx
Tools & Workflow	Git, GitHub, Postman, Swagger, ClickUp, Agile/Scrum

EXPERIENCE

Backend Developer **June 2025 – Present**

Bridgeon Solutions, Calicut

- Engineered and maintained 20+ secure RESTful APIs using Django REST Framework for internal product workflows.
- Orchestrated real-time chat and notification systems using Django Channels and Firebase, achieving sub-second message delivery.
- Designed PostgreSQL schemas and accelerated query performance by up to 40% through ORM and database index optimization.
- Integrated backend APIs with React and Redux interfaces across 15+ complex views, ensuring seamless data synchronization.
- Facilitated weekly sprint-based development workflows utilizing Docker, Git, and ClickUp, streamlining deployment cycles by 20%.
- Strengthened backend security for 100% of API endpoints using JWT authentication, HTTP-only cookies, and robust CORS configurations.

PROJECTS

PathWise — Multi-Tenant SaaS Platform *Personal Project*

- Architected an enterprise-grade multi-tenant platform using Django, implementing a "Public vs. Tenant" schema separation to ensure 100% strict data isolation and secure scaling across multiple institutional ecosystems.
- Developed a React.js administrative command center featuring robust organization-level tools to monitor and control 10+ tenant-specific application states from a unified UI.
- Integrated real-time communication via Django Channels and WebSockets, successfully resolving proxy handshake mismatches through precise Nginx routing configurations to maintain 99.9% connection stability.
- Designed multi-tier authentication and token-based onboarding workflows, ensuring system superusers are correctly designated as `platform_admin` for highly secure infrastructure management.

The Book — Enterprise E-Commerce Platform *Personal Project*

- Developed a scalable e-commerce platform using Django REST Framework and React (Vite), handling the complex lifecycle of 500+ product inventory items, user interactions, and secure checkouts.
- Integrated the Razorpay API for end-to-end payment processing and Cloudinary for automated image hosting, reducing static image asset asset load times by 35% via automated formatting transformations.
- Leveraged Celery and Redis to manage asynchronous background operations, handling 1,000+ simulated transactional email tasks and order updates to ensure a smooth, non-blocking user experience.
- Standardized the development and deployment environment via Docker containerization and secured the stateless API utilizing customizable 15-minute JWT authentication refresh cycles.

EDUCATION

Bachelor of Computer Applications (BCA) **2025 – Present**

Indira Gandhi National Open University (IGNOU) *Distance Education*

Higher Secondary Education (PCM) **2025**

Peruvallur