Mohamed Abucar

Summary

Aspiring Software Engineer with experience in backend and full-stack development. Skilled in designing scalable APIs, real-time applications, and interactive web interfaces. Passionate about building efficient systems and optimizing database performance.

Technical Skills

Programming Languages: Python (Django, DRF), JavaScript (React.js), Java, SQL, HTML, CSS
Backend: Django REST Framework, PostgreSQL, JWT Authentication, WebSockets
Frontend: React.js, UI/UX Design, Responsive Web Development
Other: Object-Oriented Programming (OOP), API Design, Database Optimization, Authentication & Authorization

Projects

E-Commerce Management System *(Django REST Framework, PostgreSQL)*

- Designed and developed a scalable REST API for managing users, businesses, stores, departments, products, and workers.
- Implemented custom authentication and role-based access control.
- Optimized database queries using Django ORM filters and prefetching.
- Integrated Django Channels for real-time updates and WebSockets.

Full-Stack E-Commerce Platform *(Django, DRF, React.js, JWT)*

- Developed a secure JWT-based authentication system with email verification.
- Built a RESTful API with 20+ endpoints for products, orders, and inventory.
- Designed a dynamic React.js frontend with interactive UI elements.
- Implemented search, pagination, and filtering for scalable performance.

React Inventory Management System (Kar Space) *(React.js, REST API)*

- Built a full inventory management system inspired by Square's platform.
- Developed role-based authentication for business owners and workers.
- Created a responsive UI with animated components and transitions.
- Integrated REST APIs for user and business data management.

Real-Time Chat Application *(Django Channels, WebSockets, React.js)*

- Implemented private and public chat rooms with CRUD functionalities.
- Designed a custom permission system for private chat access.
- Developed a recommendation system for popular chats.
- Integrated search and real-time message updates.

Additional Projects & Experience

- **AI & Data Science:** Kaggle projects (Titanic → 78.22% accurate)
- **Game Development:** Tic-Tac-Toe AI (Minimax), Snake Game and Flappy Bird (Java)
- **Python Terminal:** Weather App, BOFA Inventory System, Group Chat(Websockets)