ASWIN S KUMAR

PYTHON FULL STACK DEVELOPER

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PROFILE SUMMARY

Versatile Full-Stack Developer with practical experience in building modern web applications using Django, DRF, PostgreSQL, React.js, and Redux. Combines strong backend engineering skills with an eye for intuitive, performant user interfaces. Proficient in crafting secure APIs, optimizing database interactions, and delivering responsive frontends that enhance user engagement. Passionate about clean code, agile collaboration, and solving real-world problems through scalable, maintainable solutions. Eager to contribute to fast-paced development teams and continuously explore emerging tools and technologies.

SKILLS

Programming Languages	Python, JavaScript
Back End Development	Django, Django Channels, DRF (RESTful APIs), WebSockets,Celery
Front End Development	React, Redux Toolkit, Tailwind CSS, Bootstrap, HTML, CSS
Database	PostgreSQL, MongoDB
Cloud	AWS (EC2), Vercel, Docker
Tools	Git, GitHub, Postman, VS Code, Figma
Concepts	Data Structures, Algorithms, Object-Oriented Programming (OOP)

PROJECTS

TalkMate – Real-Time Language Exchange Platform   Live LInk | Github

TalkMate is a real-time group audio/video chat platform that helps users practice languages with others across the globe. Designed for 2–6 users per room, it supports real-time chat, voice, and video (for premium users), making it ideal for language learners.

- Built using Django, Django Channels, and Django REST Framework for real-time backend operations.
- Integrated WebRTC for peer-to-peer audio/video communication in a mesh architecture.
- Designed dynamic frontend using React.js, Redux Toolkit, and Tailwind CSS.
- Implemented JWT-based authentication and role-based access control (e.g., premium video access).
- Enabled real-time messaging and hand-raise functionality via WebSocket and WebRTC signaling.
- Deployed backend on AWS EC2 and frontend on Vercel for seamless scalability and performance.
- Containerized using Docker and managed async tasks with Celery and Redis.

Euphoria -- Chocolate ecommerce platform   Live LInk | Github

Euphoria is a full-featured e-commerce website built entirely with Django using its MVT architecture, designed for selling chocolates. The platform provides a seamless shopping experience with secure authentication, intuitive browsing, and a robust checkout system.

- Built end-to-end using Django's MVT architecture for clean and maintainable code structure.
- Integrated Razorpay for secure and reliable payment processing.
- Enabled user authentication with Google OAuth2 for quick and easy login.

- Implemented a complete cart and order management system for smooth transactions.
- Designed a PostgreSQL database schema to handle products, orders, and user information efficiently.
- Deployed on AWS EC2 for scalable, stable, and production-ready hosting.

EDUCATION

Python Full Stack Developer   2024-Present
Brototype

BSc - Computer Science, University of Kerala.   2021-2024
University Institute of Technology, Yeroor
 CGPA : 7.32/10.00