AQRAB KHAN

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Education

Master in Computer Applications	Aligarh, India
Aligarh Muslim University (AMU) Aligarh	October 2022 - Oct 2024

Work Experience

Alesa AI Ltd – Software Developer | London, Remote   Sep 2024 – Present
Technologies: Flutter, Dart, Firebase, OSM Maps, ProjectOSRM, GeoJSON, TTS Library, Razorpay

- ➢ Developed a **cross-platform application** using **Flutter & Dart** with a **Firebase backend**, delivering a responsive and scalable user experience.
- ➢ Integrated **OSM Maps** instead of Google Maps, reducing API costs by **~80%**.
- ➢ Implemented **routing with ProjectOSRM**, utilized **GeoJSON** for route visualization, and integrated **TTS (Text-to-Speech)** for turn-by-turn navigation.
- ➢ Integrated **Razorpay payment gateway** for seamless subscription management.
- ➢ Successfully deployed applications that are **live on** Google Play Store, supporting real users.
- ➢ Cloud Integration such as OCI and AWS and its migrations.
- ➢ Developed and enhanced various applications under the NDA.

Projects

Realtime QR Code Scanner with Dashboard & ERP Integration(For Allana Group)
Technologies: Python, OpenCV, Pillow, ZBar, Tkinter, Django REST API, Pygame, Webhooks

- ➢ Developed a **real-time QR code scanner** using **Python OpenCV** and **ZBar**, enabling fast and accurate QR code detection.
- ➢ Built a **desktop GUI with Tkinter and Pillow**, displaying live camera feed, scanned results, logs, and an interactive **dashboard** for data visualization.
- ➢ Implemented **role-based access control**, ensuring different users have appropriate permissions for scanning and dashboard access.
- ➢ Integrated with **ERP systems via webhooks**, allowing real-time synchronization of scanned data with enterprise backend systems.
- ➢ Utilized **Django REST API** for backend communication and **Pygame audio alerts** for successful scans.
- ➢ Managed multi-threaded scanning and logging for **high-performance real-time operations**.

The Best Food – Full-Stack Food Ordering Application   **(Deployed)**
Technologies: Flutter, Dart, PHP Laravel, MySQL, REST API, Google Maps API, PayPal Integration

- ➢ Developed a **cross-platform food ordering app** with **MVVM architecture**, ensuring a responsive and intuitive UI.
- ➢ Built a **robust backend** using **PHP Laravel** with **MySQL**, enabling seamless data management.
- ➢ Integrated **RESTful APIs** for smooth communication between frontend and backend.
- ➢ Implemented **Google Maps API** for location tracking, geofencing, and location-based services.
- ➢ Enabled **user authentication, shopping cart**, and **PayPal payment gateway** for secure transactions.

Job Hub – Job Application Backend
Technologies: Node.js, Express.js, Mongo DB, REST API

- ➢ Designed a **high-performance backend** for a job portal similar to Naukri.
- ➢ Managed **user authentication, data validation**, and **database operations** efficiently.
- ➢ Developed **Restful APIs** for communication with frontend and external services.
- ➢ Optimized backend workflows to support **job search and application management**.

WEFIX – Android Application for Unorganized Workers
Technologies: Flutter, Dart, Firebase Authentication, Firebase Real-time Database

- ➢ Developed a **cross-platform app** connecting unorganized workers (masons, plumbers, painters) with customers.
- ➢ Implemented **Firebase Authentication** and **Real-time Database** for secure login and efficient data storage.
- ➢ Built a **user-friendly interface** to simplify booking and task management.

Courses/Skills

- ➢ **Languages:** Java, C/C++, Dart, HTML, Node.js, SQL, DBMS, Python
- ➢ **Frameworks:** Laravel, Express, Flutter, Django

Tools: Cloud Integration(OCI,AWS),Git, Github, Vscode, Intellij, Postman, Android Studio, Google Maps, Trello, Docker

- ➢ **Relevant Courses:** System Design and Analysis, Data Structure, Algorithms, Database Management, Operating System, Artificial Intelligence
- ➢ **Area of Interest:** Problem Solving, Development, Optimization, Reading Books

Societies/Extra-Curricular Activities

- ➢ Completed the course of
  Machine Learning with Artificial Intelligence and **Master Generative AI (Artificial Intelligence).**
- ➢ Participated in AMUHACKS 3.0 coding competition, demonstrating competitive programming skills.