Akash

Mobile App Developer

www.akashcodethis.com in linkedin.com/in/akash-kumar-20b722207

Profile

Software Engineer with a solid understanding of application development, including frontend and backend systems. Focused on building reliable and maintainable solutions that address practical needs. Interested in solving real-world problems through technology and improving skills over time.

Education

Karachi Institute of Economics & Technology

Bachelor of Computer Science

09/2021 - 08/2025

Karachi

Studied software development, algorithms, and networking with hands-on experience in academic projects and practical applications.

Work Experience

ISPR (Inter Service Public Relation)

07/2024 - 08/2024

Intern

- Conducted interviews with senior leaders (e.g., DG ISPR, Systems Limited CEO) to explore cybersecurity and digital initiatives.
- Summarized findings into 10+ executive briefings for internal use.
- Participated in strategic workshops and field visits to tech and defense facilities.
- Gained insight into public-sector IT governance and communication protocols.

Skills

React Native

Java

.NET

Networking

Python

• C#

Design & Analysis

OOP

SQL

Power BI

Odoo ERP

Projects

Dialogue Director (FYP)

10/2024 - present

- Achieved A grade and ranked 3rd best project among 50+ in the final year
- Developed a **Python backend** for YouTube subtitle summarization, reducing manual review time by 65%, and integrated it with a React Native app for real-time video analysis and results.
- Integrated APIs for speaker diarization and topic segmentation, improving transcription clarity by 40%, while ensuring seamless communication between the frontend and backend.

 Processed 50+ videos, demonstrating scalability, efficient topic indexing, and preparing for future sentiment analysis integration to expand use cases by 30%.

ClearSight - Al Powered Vision for the Blind

- Developed an assistive mobile app for visually impaired people using **React** Native (frontend) and Flask (backend).
- Implemented real-time object detection (YOLOv8), color recognition (OpenCV), and OCR-based text-to-speech for reading printed content.
- Integrated Whisper (OpenAI) for voice commands, enabling hands-free navigation.
- Built an emergency assistance system using Firebase + Twilio, allowing users to send instant alerts to pre-saved contacts.
- Designed for affordability and accessibility, ensuring smooth performance on low-cost Android devices and compliance with WCAG standards.

Patient Medicine Alarm App

- Created a mobile reminder app that increased medicine adherence in test users by 25% using timely alerts.
- Achieved 95% alert accuracy during testing on multiple Android devices.
- Reduced scheduling errors by 40% with built-in time validation and persistent alerts.

Bank Management System (C#)

- Built a banking app that handled over **200+ user accounts**, enabling secure deposits, withdrawals, and reports.
- Reduced transaction processing time by 30% using optimized code and real-time updates.
- Implemented error handling to bring input error rate down by **80%** during simulations.

Client-Server Chat Application (MPI-Based)

- Engineered a chat system with Message Passing Interface (MPI) for 100+ users, maintaining average latency under 50ms.
- Reduced communication overhead by 45% through efficient socket design and concurrency handling.
- Successfully simulated **multi-client load testing** across different machines using distributed architecture.

Certificates

- Python Full Stack Development
- Speed Programming Competition
- Poster Designing Competition
- Speed Networking Competition
- Microsoft Built Portfolio using React

Languages

Urdu

English

Sindhi