PANKAJ KUMAR ROY

SOFTWARE DEVELOPER

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Full-Stack Developer with a strong foundation in Android native development, React, and Ktor. Proficient in Kotlin, Java, and Android SDK, with experience building scalable, user-friendly applications across mobile and web platforms. Skilled in problem-solving and quickly adapting to new technologies. Proven success in leading teams to achieve project goals and deliver high-quality software solutions for both mobile and backend environments.

Projects

CII Conversion Framework
Dec 2023 - Ongoing

- Developed a custom **AI** ETL tool using **React** and **Ktor**, eliminating dependency on third-party **SaaS** and saving the organization around **$531K annually**.
- Utilized open-source technologies like **PySpark** and **Azure OpenAI** services to create a scalable, budget-friendly solution delivered in record time.
- Lead a team of 11 talented engineers to accomplish my goals.

Patient Monitoring System
Nov 2021 - Jan 2022

- Engineered a healthcare **IoT** system with **ESP32.**
- Leveraged **Firebase** for **secure real-time** data transmission and storage.
- Developed an **Android** app in **Java/Kotlin** for intuitive data visualization.
- Developed web app using **Ktor** and **AWS DynamoDB**.
- Managed infrastructure using **Terraform**

Media Sharing App
Feb 2021 - Jun 2021

- An app that fethes/scrapes memes from several different APIs and sources and displays in a story based carousell interface.
- Uses **Firebase** for persistance, A/B testing, report back bugs and logcats are captured automatically
- Uses **Cloud Firestore** to save the best for future analytics.
- Written entirely in **Kotlin** with **Ktlint** for linting.

Skills

- **Android Development**
- **Kotlin**
- **React**
- **JS/TS**
- **Java**
- **SQL, PL/SQL**
- **Python**
- **Google Firebase**
- **Azure**
- **Git/GitHub**
- **Markdown**

Certifications

- (AZ-900) Azure Fundamentals
- (AZ-204) Azure Developer Associate
- (AI-102) Azure AI Engineer Associate
- (DP-600) Fabric Analytics Engineer Associate

Experience

Programmer Analyst (Cognizant)
Apr 2023 - Ongoing

- Built a high-performance web application with **React** and **Ktor**, increasing user engagement by 40% and reducing load times by 30%.
- Developed a **RESTful API** supporting over 10,000 concurrent users, decreasing server response times by 25%.
- Streamlined deployment processes, achieving a 50% reduction in deployment time and enabling faster feature rollouts.
- I worked alongside the data engineering team to integrate machine learning models using **PySpark** and **Azure-OpenAI**.

Programmer Analyst Trainee (Cognizant)
Dec 2022 - Mar 2023

- Developed responsive web applications with **React**, utilizing **Git** for version control and **Markdown** for **doc-as-code** workflow.
- Collaborated in agile teams, applying state management to create user-friendly interfaces.

Azure - Data Development Intern (Cognizant)
Jan 2022 - Jun 2022

- Gained practical programming proficiency.
- Actively contributed to real-time Azure interactions.
- Demonstrated adaptability by acquiring new skills on the fly.

Education

B.Tech | MAKAUT | Academy of Technology Electrical Engineering
2018 - 2022
8.61 CGPA

12th Boards | CBSE | Kalyani Central Model School
2018
60.3%

10thBoards | CBSE | Kalyani Central Model School
2016
8.6 CGPA