DEEPKUMAR PATEL

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TECHNICAL SKILLS:

Programming: C/C++, C#, Python, Java, .NET, Swift, JS, HTML+CSS, Dart, Kotlin.
Tools/Tech.: Visual Studio, Android Studio, Xcode, MySQL, Oracle, MERN stack, Git, Postman.
Skills: Problem Solving, Data Structures & Algorithms, Full-Stack Development, Machine Learning, Testing Tools, Debugging, UI in MVC, Agile Methodologies, CS+ML Math, Strong Communication, Adaptability, Teamwork.

PROFESSIONAL EXPERIENCE:

Applicaton Developer   Jan 2022 – Dec 2022
GlobalVox Inc. | Ahmedabad, India

- Developed a cross-platform mobile application for Android and iOS, focusing on **end-to-end (E2E)** development to ensure seamless user experiences across diverse devices.
- Collaborated with clients to thoroughly understand client requirements and ensure alignment with their objectives.
- Effectively utilized a combination of Flutter and open-source libraries **(GetX, Dio, Firebase, Geolocator)** to deliver a high-performance and feature-rich mobile application.
- Achieved a 30% improvement in application performance and streamlined user experiences by implementing the **GetX** state management library and **MVC** architectural pattern.
- Integrated the **Dio HTTP client**, optimizing API communication and reducing server response times by 15%.
- Executed Basic authentication and **JSON Web Tokens (JWT)** for secure Bearer authentication, enhancing overall application security.
- Utilized version control with Bitbucket to maintain the codebase and facilitate efficient collaboration among team members.
- Leveraged Firebase Cloud Messaging **(FCM)** to enable push notifications, improving message handling efficiency.
- Worked closely with cross-functional teams to seamlessly integrate features into the application, ensuring smooth collaboration and project delivery.

EDUCATION:

Postgraduate Certificate - Mobile Solutions Development (MSD)	Jan 2023 – Apr 2024
Conestoga College	Waterloo, Ontario	*CGPA: 3.82/4.00*
Bachelor of Computer Science	May 2018 – Jun 2022
Ahmedabad University |Ahmedabad, India	*CGPA: 3.00/4.00*

PROJECT WORK:

LooksBeyond: Cross-Platform Mobile Application   Jan 2024 – Apr 2024

- Developed a **dual-application** system, utilizing **Flutter** (60%) for front-end and **Firebase** (40%) for back-end synchronization.
- Integrated secure financial transactions through **Stripe**, enhancing business operations and customer experience with a seamless payment process (90%).
- Designed intuitive app **interfaces** and real-time backend functionalities to boost user engagement and operational efficiency (95%)

Hisab Diary – Android Mobile Application   Jan 2022 – Jun 2022

- Developed a comprehensive expense tracking system using **Android Studio** and **SQLite database**, enabling users to categorize expenses and generate detailed reports for enhanced financial management.
- Designed intuitive visuals and user-friendly interfaces through **Figma**, resulting in a streamlined user experience and increased engagement by 85%.
- Implemented **Firebase** for real-time data synchronization, providing users with access to their financial data across multiple devices and ensuring data security.

Rainfall Prediction Using Machine Learning   Feb 2021 – Apr 2021

- Developed a **rainfall prediction** model for Ahmedabad city using historical data spanning **11 years** (2009-2020).

- Utilized various data preprocessing techniques, including **feature selection** and **normalization**, to optimize the dataset.
- Implemented a range of **regression models** such as linear regression, Support Vector Machine (SVM), and Random Forest Classifier to accurately predict rainfall patterns, resulting in a significant 25% improvement in prediction accuracy.
- Ongoing refinement and optimization of models were conducted, culminating in a remarkable enhancement of prediction accuracy from 70% to 90%.

Open-Source Contribution at HelenOS   Oct 2020 – Dec 2020

- Actively engaged in the development of the HelenOS open-source repository, a **microkernel-based** multi-server operating system, contributing to its enhancement and expansion.
- Collaborated with a global community of developers to implement and optimize essential Linux commands such as grep, head, tail, and wc within the HelenOS environment, thereby augmenting system functionality and usability.
- Utilized advanced proficiency in **Operating System principles** and C programming to architect, debug, and refine the codebase, ensuring compatibility and reliability across diverse computing environments.

ADDITIONAL EXPERIENCE:

Tutoring and Leadership (Community):

- *Teacher Assistant*   Jan 2021 – May 2021
  Ahmedabad University, India
    - Assisted in instructing students enrolled in the Data Structures course, focusing on foundational concepts and advanced topics.
    - Contributed to the continuous improvement of the course by providing feedback on teaching methodologies, curriculum design, and student learning outcomes.

Noteworthy Events (Tech and Innovation):

- *ConHacks Participant*   Oct 2023
  Conestoga Hackathon | Waterloo, Ontario
    - Learned about fast-paced project development, with full-stack implementation, and working with various other programmers with different skill sets.
    - Implemented extreme programming methods to prioritize product deployment, while also getting valuable guidance from hackathon mentors.
- *Volunteer – Ingenium*   Sep 2019
  Ahmedabad University | Ahmedabad, India
    - Demonstrated commitment as a volunteer at Ahmedabad University's Ingenium 2019 event.
    - Played a pivotal role in contributing to the overall success of the event by actively participating in organizational tasks.