Komera Tarun

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Education

Maulana Azad National Institute of Technology　　　　　　Bhopal, Madhya Pradesh
Bachelor of Technology in Electronics and Communication　　　*July 2017 - May 2021*

Experience

NEBULOGIC TECHNOLOGIES　　　　　　　　　　　　March 2022 - Present
Software Developer　　　　　　　　　　　　　　　　　*Hyderabad, Telangana*

Project: 311 Mobile App
　Technologies: Flutter, Dart, Azure, Firebase, REST APIs, ESRI, Google Maps, JSON

- **Developed a comprehensive 311 Mobile Application solution** designed to be easily adapted for multiple cities. This solution allows residents to report non-emergency issues and access city services via mobile and web platforms, offering a centralized system to enhance communication between citizens and city departments.
  - Created a **dynamic case management framework** supporting over 110 case types, driven by **JSON data** generated from the CRM, allowing for easy updates and scalability without requiring changes to the core codebase.
  - Integrated **Azure login authentication**, ensuring users are directed to personalized content based on their role (e.g., residents, agents, department users).
  - Built a **scalable, reusable system** for 311 services, enabling cities to adopt the application without the need for significant redevelopment or code rewrites, ensuring faster deployment and easier customization for each city's unique needs.
  - Integrated **GIS for address verification**, enabling users to input addresses and receive important details, including collection days, jurisdiction, zoning, latitude/longitude, and other relevant data.
  - **Implemented Firebase push notifications** for real-time updates to users regarding the status of their requests, improving user engagement and communication.
  - Developed **analytical report components** to provide administrators with detailed data about incidents raised, tracking trends, resolution times, and geographic distribution.
  - Ensured the app's **responsive design**, dynamically adjusting UI elements for both **mobile phones and tablets** based on device size.
  - Focused on **performance optimization**, ensuring smooth functionality across a wide range of devices and platforms.
- **Implemented this solution for Fort Wayne's 311 Mobile Application**, tailored specifically for the city's needs:
  - **Managed the entire mobile app** for Fort Wayne, overseeing ticket creation, assignment, and resolution tracking for non-emergency city services, significantly improving operational efficiency in maintenance, code enforcement, and public safety.
  - **Integrated ESRI and Google Maps**, allowing users to visually locate incidents, track request statuses, and view nearby raised requests.
  - Developed a **Knowledge Base Articles component** for users to easily access self-help resources and FAQs, reducing ticket volume and providing better support.
  - Performed all **testing steps** for both **Android and iOS**, ensuring the app met performance standards and user expectations:
    - Addressed **bug fixes** and **optimizations** based on feedback during the testing phase.
    - Provided the app to the **testing team** for comprehensive testing on both platforms before release.
  - **Published the mobile app** on both **Android and iOS** platforms.
    - Prepared the app for **Google Play Store** and **Apple App Store** submission, ensuring compliance with platform guidelines and handling store assets (screenshots, descriptions).
    - Managed **app store releases** and **version updates** to ensure availability and meet user expectations.
    - **Google Play Store:** https://play.google.com/store/search?q=fort+wayne+311&c=apps&hl=en
    - **Apple App Store:** https://apps.apple.com/in/app/fort-wayne-311/id1191752938

Project: TheCarCrowd

Technologies: Angular 8, Java, Spring Boot, Azure

- Developed a platform that facilitates the buying and selling of antique car shares in the UK, also worked on a program facilitating sending newsletters to users.
- Designed and implemented new car registration and share registration components using Angular 8 forms and Spring Entity Manager for seamless data handling.
- Developed functionality to upload vehicle photos to Azure Blob Storage using Azure libraries in Spring Boot, resulting in a 75 percent reduction in manual interaction.
- Created algorithms to efficiently manage share allocations for registered cars, ensuring smooth transactions and accurate ownership tracking.

MTX   January 2022 - June 2022
Consultant Trainee (Full Stack Developer)   *Hyderabad, Telangana*

- **Designed user interfaces** for the **Mavq-LMS project**, working closely with the backend API to create seamless, responsive screens for the Learning Management System (LMS).
- **Resolved bugs** and issues, contributing to the overall stability and performance improvements of the Mavq-LMS platform.
- Collaborated with **senior developers** to **optimize code**, ensuring better efficiency and scalability for both the front-end and back-end components of the application.
- Developed **Backend REST APIs** for the **Covid-SB Project**, implementing key features to support the application's functionality and data flow.

Projects

Paddy Leaf Disease Detection
Key Skills: Python TensorFlow OpenCV Deep Learning

- Detected 3 kinds of paddy leaf diseases using Digital Image Processing and Machine Learning.
- Developed a Convolution Neural Network Model for the Classification of diseases.
- Achieved an accuracy of 73% on the validation dataset.

Technical Skills

Languages: Dart, Java, JavaScript, C/C++, SQL, HTML/CSS,
Frameworks: Flutter, Angular, Angular Material, Node.js, Bootstrap
Developer Tools: Firebase, Azure, Gitlab, Visual Studio Code, Postman, STS