

SUMMARY

Experienced software developer with expertise in developing mobile, IoT, and web-based applications using multiple programming languages and technologies, including Java, Python, C/C++, Kotlin, and AWS. Skilled in developing face recognition, automation, and AI-based applications. Recognized for outstanding work by various organizations and proven success in multiple hackathon competitions.

PUBLICATION

- **Automation of Residential Water Flowmeter:** This paper describes the automation of a mechanical water flow meter, which ranges from 4 liters/min to 40 liters/min. Describes the accuracy of existing water meters and IoT has been applied for the process of its automation.
Tech Stack: Microcontroller, Hall Effect sensor, cloud (Firebase), Android (Java), Restful.
International Journal of Emerging Technologies and Innovative Research (www.jetir.org),
ISSN:2349-5162, Vol.8, Issue 8, page no.c364-c370, August-2021.

EXPERIENCE

- **Tata Consultancy Service Ltd.** Pune, MH, IN
System Engineer (Digital Cardre) *June 2021 - Present*
 - **Microservices Application:** Contributing to the project involving the migration of a monolithic system to a microservices architecture by developing independent components as services for business capabilities. Facilitated communication between microservices via well-defined interfaces using lightweight APIs.
Tech Stack: Spring Boot, Java, AWS DynamoDB, Git, and Bamboo.
 - **Monolithic (Legacy) Application:** Conducted an in-depth analysis of a legacy Java monolithic application and identified areas to break it into smaller chunks of services for integration into the microservices architecture.
- **Revmeup** BLR, KA, IN
Software Engineer Intern *Oct 2020 - May 2021*
 - **Product Creation Batch:** Designed and Developed a Product Data collection system based on optimized web scrapping responsible for collecting and storing Product data in a structured format (JSON) existing on Amazon, Flipkart, and other Stores. Able to collect more than 1 Million product data.
"Based on Final Year Major Project Thesis"
Tech Stack: Python (Scrapy, Flask), MongoDB, Linux.
 - **Backend Server Scripting:** Developed easy-to-maintain scripts/services for Monitoring, managing, and maintaining the AWS EC2 servers.
Tech Stack: Python, Bash
 - **Revmeup Android App Development:** Contributed and Developed the Revmeup android Application that was responsible for interacting with end users.
Tech Stack: Android (Java), Firebase, Node.js, MongoDB.
- **Muzaffarpur Institute of Technology** MFZ, BH, IN
Student Developer *2018 - 2020*
 - **Chamki Fever (Encephalitis) Application:** Developed Chamki fever (Encephalitis) System to solve Real Life problems faced by the District Administration during the Encephalitis phase.
Tech Stack: Android (Java), Firebase.
 - **MITM App:** An Android Application for MIT Muzaffarpur (College). Implementing Google Firebase & Linux Server (Python- web scrapping) for delivering Real-time college notice as Firebase cloud messaging notification to the end users. "MITM" was Published on Google Play Store.
Tech Stack: Android (Java), Firebase, Linux, Python, Web Scrapping.
 - **TechMITi Fest Android Application:** An Android Mobile application for the annual technical fest of Muzaffarpur Institute of Technology.
Tech Stack: Android (Java), Firebase.
 - **Moxie Club Android Application:** An Android Mobile application for Moxie the technical club of Muzaffarpur Institute of Technology.
Tech Stack: Android (Java), Firebase.

PROJECTS

- **MGNAREGA – App:** A tool to detect, separate, and match an individual from a group photo using a face recognition mechanism under Department of Rural Development - Smart India Hackathon Software Edition 2022.
Tech Stack: HTML, CSS, Node.Js, AWS S3, AWS EC2, Python, Open CV, React Native
- **NOLOSHA – Smart Regulator:** Designed & Developed a Low-cost smart safety device under AICTE, DST, and Texas Instruments-India Innovation Challenge Design Contest (IICDC) - 2019.
Tech Stack: Python, IOT (RasPi), Android (Java), Firebase.
- **My City Information Mobile Application:** An Android Application that shows the important information related to a city, Under YAMAHA MOTORS Pvt. Ltd. - Smart India Hackathon Software Edition 2019
Tech Stack: Android (Java), Firebase.
- **AI Based Crop Identification Application:** An Application based tool to detect and Identify agricultural crops Under Indian Space Research Organisation (ISRO) - Smart India Hackathon (Internal College Hackathon) 2020 Secured 1st position with the team.
Tech Stack: Python (Flask), Android(Java), Open-Cv, CNN.
- **COVID – 19 Android Application:** Developed Application with an interactive UI to keep a live track of COVID-19 Cases all over the world. Dataset - CSSEGISandData/COVID-19.
Tech Stack: JSON, Android (Java).

TECHNICAL SKILLS

- **Languages:** Java, Python (Scripting Languages), C/C++, Bash
- **Technologies:** Native App Development (Android -Java/Kotlin), IOT (RasPi, Arduino), Python Development(Flask, Scrapy, Selenium), AWS(S3, EC2), Firebase, Linux (Bash), Microservices (Spring Boot).
- **Skills:** Software Development, Coding & Debugging, Exception Handling, Problem Solving Skills, Security & Integration Testing, Java J2Ee, Mockito, Junit Unit Testing, Sprint, Scrum/Agile Methodologies practitioner, Team Player, Application Design, Service Design, Service-Oriented Architecture, Software Design, Data Structures, Software Design pattern & Design Principles, Front-End Development, Back-End Development, OOPs & Algorithm, REST APIs, Software Enhancement, Customer Requirements Implementation & Delivery, Independent Performer, Analytical, Project Planning,Product Design & Product Quality Improvement, Performance Tuning, Database, Application Development, SDLC, Spring, Spring Mvc, Springboot, Performance Engineering,Application Server Management, Rest Api Gateway, Web Services, Multithreading, Code Quality & Sonar.
- **OS:** Windows, Linux / MAC

ACHIEVEMENTS

- **Smart India Hackathon – Software Edition 2022:** Exceptional contribution as a mentor for Developing a tool to detect, separate, and match an individual from a group photo using a face recognition mechanism under the Department of Rural Development
- **Smart India Hackathon – Software Edition 2019:** Runner-up of Smart India Hackathon-Software Edition under organization YAMAHA MOTORS Pvt. Ltd.
- **Awarded by Chief Electoral Officer, Bihar:** Awarded by Administration of Bihar for developing Chamki Fever (Encephalitis) Application as social welfare for better, healthy, and safe society.
- **India Innovation Challenge Design Contest-2019 :** Semifinalist of AICTE, DST, and Texas Instruments IICDC.

EDUCATION

- **Muzaffarpur Institute of Technology** Muzaffarpur, BH, IN
Bachelors in Information Technology; CGPA: 8.04 *Aug. 2017 - Oct. 2021*