

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Java, JavaScript
- **Web Technologies:** HTML, CSS, Node.js, Tailwind
- **Databases:** MongoDB, MySQL
- **Tools:** Git, Visual Studio Code, Android Studio

## PROJECTS

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### ● Smart Robot Receptionist: Python, Raspberry Pi

- Designed and implemented a **smart robot** capable of functioning as a receptionist, aiming to mimic human interaction and provide basic assistance to visitors.
- Utilized **Raspberry Pi** as the hardware backbone, integrating **sensors and actuators** to enable responsive, interactive functionality.
- Gained hands-on experience with **hardware-software integration**, improving understanding of how software commands interface with hardware components in real time.
- Learned key concepts of **robotics, automation, and embedded systems**, including the setup and programming of Raspberry Pi for real-world applications.

### ● Feedback App for Schools and Colleges: Java, Firebase, Android Studio

- Contributed to developing a feedback application aimed at **improving the educational experience** in schools and colleges across India.
- Designed and implemented **key features** to capture, analyze, and display feedback data, enhancing user experience and ease of use.
- Integrated **Firebase** as the database solution, enabling **real-time data storage and retrieval**, which improved data management and app performance.
- Gained proficiency in **Android Studio, Java, and database systems**, deepening understanding of mobile app development, user interface design, and cloud-based databases.

### ● SOS Crime Prevention Device: Arduino Nano, ESP32-CAM, GPS/GSM Modules

- Designed and built an **SOS device** to prevent potential crimes, featuring **live camera streaming** and **emergency SMS alerts** to alert authorities or contacts in real time.
- Integrated **GPS and GSM modules** to enable location tracking and immediate communication in case of emergency.
- Programmed the **ESP32-CAM and Arduino Nano** to capture and store video on a **Micro SD card**, providing a record of events for increased security.
- Developed expertise in **IoT components and real-time data communication**, enhancing practical skills in hardware-software integration and embedded systems.

### ● Job Application Portal: HTML, CSS, JavaScript, MongoDB

- Built a **responsive web application** for job seekers and recruiters, enabling candidates to apply for jobs and recruiters to find ideal candidates.
- Designed a **feature-rich portal** where recruiters can create **custom tests for applicants**, allowing for skill assessment and streamlined candidate selection.
- Integrated **MongoDB** for efficient data storage, enabling smooth management of candidate profiles, job applications, and test results.
- Gained skills in **front-end web development and user experience design**, creating intuitive and interactive user interfaces with HTML, CSS, JavaScript, and database management with MongoDB.

### ● Group Saving Portal: HTML, CSS, JavaScript, MongoDB

- Built a **collaborative saving platform** that allows multiple users to save funds together within customizable timeframes, with options for shared or individual bank account management.
- Designed secure transaction and account management features, using **MongoDB** for efficient data storage and retrieval, ensuring a **transparent record of all transactions**.
- Developed an **automated reminder system** using JavaScript to send notifications to participants before contribution deadlines, encouraging timely payments.
- Enhanced expertise in **front-end technologies (HTML, CSS, JavaScript)** and database management with MongoDB, creating a reliable and user-friendly platform for financial collaboration.