Prasen Rajaram Bagul

Software Developer

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Work Experience

Software Developer Intern
Vinz Global Pvt. Limited, Pune | February 2024 - June 2024
• Collaborated with a team to develop a recruitment web application, implementing Python scripts for automated resume parsing and filtering based on recruiters' specific requirements.
• Designed responsive front-end interfaces using React.js, HTML, CSS, and Figma, ensuring a seamless user experience across devices.
• Managed and optimized PostgreSQL database structures to ensure efficient data storage, retrieval, and scalability.

Web Developer Intern
PHN Technology Pvt. Limited, Pune | April 2023 - June 2023
• Built responsive web pages using HTML, CSS, and JavaScript based on assigned tasks.
• Created innovative front-end design solutions to address complex, space-constrained challenges, ensuring both functionality and an intuitive user experience.

Skills

• Programming Language: Python
• Web Development: HTML, CSS
• Android Development: Android Studio (Kotlin)
• Database Management: SQL
• Tools & Technologies: Git, VS Code, Figma, Arduino IDE, ChatGPT, Microsoft Office

Certifications

• **Artificial Intelligence Fundamentals** –
IBM SkillsBuild
Sep 2024
• **Internet of Things (Bootcamp)** –
NIELIT Aurangabad
Nov 2024

Education

B. Tech in Computer Science & Engineering
People's Education Society College of Engineering, Chhatrapati Sambhajinagar | 2021–2025 (Pursuing)
CGPA: 7.50

HSC (12th), **Science** | Tarapur Vidya Mandir & Jr. College, Boisar, Palghar | 2021 | Marks: 80%
SSC (10th) | Boisar Military School & Jr. College, Boisar, Palghar | 2019 | Marks: 86%

Projects

Clipboard Sync & File Sharing Application
- Developed a cross-platform clipboard sync app (Android & Windows) using FastAPI and Kotlin for text/file sharing over local Wi-Fi.
- Implemented secure, password-protected HTTP APIs for clipboard sync and file uploads.
- Created a floating overlay button and automatic clipboard monitoring using Jetpack Compose and Android background services.
- Built a Windows-side FastAPI server with system tray integration, clipboard history tracking, and persistent file storage.
- Integrated Zeroconf/NSD for seamless, automatic device discovery on the local network.

IoT Gesture System (Ultrasonic Sensors)
- Developed a gesture-based control system using Arduino ultrasonic sensors and Python.
- Implemented real-time distance sensing with noise handling and timeout safety.
- Built a Tkinter GUI to simulate keyboard inputs (e.g., media control, custom inputs).
- Enabled customizable key bindings, sensor toggles, and profile switching.
- Used moving average filtering and serial communication for smooth, accurate gesture detection.