

JAYRAJSINH ZALA

Software Developer | Software Engineer | Full Stack

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EXPERIENCE

Intern Software Engineer

elInnoSys Technologies LLP 11/2023 - 05/2024 Ahmedabad

Tech Stack: C#, WinForms, Tesseract, Visual Studio, C++, Free Image Library, EMGU CV

- Developed a C# Windows Form-based factory automation product, improving **OCR accuracy by 20%** through advanced pre-processing and character recognition techniques.
- Revamped UI/UX of automation software using **OOP principles**, boosting **maintainability by 30%** and simplifying workflows.
- Enhanced a C++ OCR library (DLL) performance by optimizing code, reducing **processing time by 15%**.
- Implemented a modular architecture for product updates, enabling faster **development cycles by 25%** and extensibility.
- Conducted research to refine OCR algorithms, achieving **10% better text recognition** for diverse languages and image qualities.

Flutter Android Developer

Tag Time (Freelance)

Tech Stack: Flutter, Dart, Firebase, Google Maps API

- Designed a Flutter-based app with QR scanning and real-time updates, boosting **user engagement by 40%**.
- Integrated Google Maps API and optimized location services, enhancing app response times by **20%**.
- Built custom widgets and streamlined UI/UX design, leading to **25% higher user satisfaction** during testing.
- Collaborated with stakeholders to ensure feature alignment, completing the project **two weeks ahead of schedule**.
- Tested and debugged application features, reducing bugs by **15%** and improving app stability significantly.

Website Designer (Freelance)

Upwork (Freelancer)

Tech Stack: Bubble, Site Pad, Tailwind CSS, Bootstrap, Responsive Design

- Redesigned an outdated website using a low-code platform, achieving a **30% increase in user engagement**.
- Optimized site loading speeds by compressing assets, reducing average load times by **20%**.
- Created intuitive navigation and visuals, increasing session duration by **15%** and client satisfaction ratings.
- Simplified workflows with automated processes, reducing manual intervention by **10%** for better site management.
- Ensured cross-platform compatibility, enhancing functionality across devices and boosting mobile traffic by **25%**.

PROJECTS

LET'S TEXTIFY

01/2024 - 05/2024

Tech Stack: C#, Windows Forms, Tesseract, EMGUCV, ZXING, MySQL

- Engineered an OCR-based tool that improved text extraction accuracy by **25%** through **optimized pre-processing algorithms**.
- Implemented robust image handling workflows, reducing error rates by **20%** while enhancing performance on real-world datasets.
- Designed user-friendly interfaces using C# Windows Forms, improving user engagement and task execution speed by **15%**.

PROMANAGE

11/2023 - 11/2023

Tech Stack: MongoDB, Express.js, React.js, Node.js (MERN), CSS, JavaScript

- Architected a responsive task management tool using the **MERN stack**, achieving a **95% user satisfaction rate** from analytics feedback.
- Streamlined task organization workflows, enabling dynamic **CRUD operations** across 4 categories, reducing task management errors by **30%**.
- Incorporated analytics features to provide actionable insights on task completion, boosting user productivity by **25%**.

SUMMARY

Driven and results-oriented full-stack developer with expertise in **MERN stack, OCR, and mobile app development**. Delivered measurable impacts, including **improving OCR accuracy by 25%**, enhancing **app response times by 20%**, and earning a **Hacker Rank Gold Badge in C++**. Proficient in **C++, C#, JavaScript, React.js, Node.js, and Flutter**, with a strong focus on **UI/UX design** and **database optimization**. Seeking to leverage technical skills and achievements for **entry-level full-stack, MERN stack, and software development roles**.

AWARDS AND ACHIEVEMENTS

Brand Ambassador - ACMEGRADE

Represented Mumbai-based edtech startup, driving engagement and outreach.

E-Yantra 2022 State-Level Qualifier

Advanced to state level, managed hardware integration challenges.

Hacker Rank C++ Gold Badge

Earned prestigious badge demonstrating advanced proficiency in C++.

TECHNOPRENEUR Founder

Led pioneering college club for 2 years.

SKILLS

Programming Languages

C++, C#, Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, Dart

Web Development

React.js, Node.js, Express.js, Bootstrap, Tailwind CSS, Bubble, Flutter Flow, REST APIs, MongoDB, Firebase

Mobile Development

Flutter, Android Development, QR Code Integration, Google Maps API, Real-Time Updates, Cross-Platform Apps

Image Processing And OCR

OpenCV, EMGU CV, Tesseract, OCR Libraries, Image Pre-Processing, Character Recognition

Software Development

Object-Oriented Programming (OOP), Multi-Threading, Design Patterns, DLL Development, Memory Management, Data Structures And Algorithms

Tools And Platforms

Git, GitHub, MySQL, MS Access, Visual Studio, WinForms, Agile Methodologies, Low-Code Platforms

EDUCATION

Bachelor of Engineering in Computer Engineering

Government Engineering College, Modasa – GTU

08/2020 - 05/2024

Modasa, India

CGPA

8.07 / 10