

RAHUL SHARMA

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SUMMARY

Full-stack developer with hands-on expertise in .NET Core, Angular, React, and Node.js, passionate about building scalable web applications and developing AI-driven solutions using ML.NET.

WORK EXPERIENCE

NATIONAL INFORMATICS CENTRE

Full Stack Developer

07/2024- Present

- Designed and developed 5+ web applications and API's using .NET Core and Angular, increasing operational efficiency by 30% in processing government data.
- Enhanced backend solutions, reducing API response time by 40%, which improved user satisfaction and engagement.
- Created responsive user interfaces, leading to a 25% increase in user accessibility metrics, allowing more citizens to interact with government services.
- Collaborated with cross-functional teams to align project objectives, resulting in the successful delivery of 3 major projects ahead of schedule.

NATIONAL INFORMATICS CENTRE

SDE Intern

01/2024- June 2024

- Assisted in the evolution of 3 key web applications, contributing to a 20% reduction in processing times for public service requests.
- Participated in Building and implementing RESTful APIs, enabling seamless communication that increased application uptime by 15%.
- Collaborated with senior developers to enhance application features, which reduced reported bugs by 30%, improving overall user experience and engaged in daily stand-ups and sprint planning, improving team communication and project delivery timelines by 10%.

PROJECTS

[Github](#)

KHAZAANA-AI

October 20 25 – Now

- Developed an AI-powered chat-bot using Phi-3.5 (primary) and Gemma2 (backup) LLM models with ML.NET, enabling intelligent conversational capabilities and automated customer query resolution with high accuracy.
- Implemented RAG (Retrieval-Augmented Generation) architecture using FAISS for vector-based document chunking and storage, enabling contextual responses and integrated database connectivity for bill status inquiries via bill/reference numbers.
- Designed an automated retraining API that executes bi-daily to continuously improve model performance by learning from historical question-answer interactions, ensuring evolving accuracy and enhanced user experience.

WINDOW SERVICE

January 2025 – Now

- Built a .NET Core micro-service for inter-department API s, improving processing speed by 80% through automation of previously manual file reading processes.
- Enabled asynchronous background processing for bill data extraction and storage, cutting processing time by 50%.

MyOffice

August 2024 – Now

- Built a real-time ticket management system for Punjab government to track leave applications and facilitate communication across different ranks.
- It is created to serve as the universal Ticket Management System for NIC (IFMS) – Punjab, enabling users to raise requirements or log tickets for any issues they encounter.
- Engineered MyOffice, an enterprise workflow automation platform supporting 5,000+ daily active users, digitizing document approval processes and reducing turnaround time by 40% through seamless integration with existing HR and finance systems.

SNA-SPARSH

November 2024 – Now

- Engineered a secure, high-volume fund management system handling ₹800+ crore in annual transactions for the Punjab Government, with seamless integration to RBI's EKuber, PFMS, and State IFMIS systems..
- Enhanced transparency and accountability by ensuring just-in-time fund disbursement to beneficiaries through automated workflows and real-time validations.
- Contributed to digital public finance reforms by integrating core treasury functions across central and state financial infrastructures.

SMART VISION GLASSES

January 2024 – June 2024

- Developed machine learning-powered smart glasses formulated to assist visually impaired users by detecting objects and announcing their presence with high accuracy. Implemented real-time object detection algorithms, enhancing user safety and navigation.

SKILLS

Programming : C#, Java, Python, JavaScript, TypeScript, PHP

Frameworks : .NET Core, Angular, React, Node.js

Libraries : jQuery, FAISS, Scikit-learn, OpenCV, ONNX Runtime

AI/ML & LLM: Phi-3.5, Gemma2, RAG, FAISS, Scikit-learn, ML.NET, ONNX Runtime, OpenCV, Computer Vision

Technical Skills: Full Stack Development, Web Application Design and Development, API Development and Integration, Database Management.

Databases and Competencies: MySQL, MongoDB, SQL Server, NoSQL, Problem Solving, Team Collaboration, Agile Methodologies, UI/UX Design.

Coursework and Research: Data Structures and Algorithms, Object Oriented Programming, Database Management System, Operating System, Computer Networks, Software Engineering

Other : REST APIs, Microservices, Agile Methodologies, Git

ACHIEVEMENTS

1. **Recipient of the Java and PHP Certification** from Techsquare Solutions Pvt Ltd, demonstrating mastery in Java and PHP programming and development.
2. **Achieved a React Front End Development certificate** from Coursera, showcasing skills in building interactive user interfaces.
3. **Core Member of VIRSA**, the largest society at Thapar Institute, responsible for organising and managing various events.

EDUCATION

THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY
B.E. in Computer Science and Engineering

Patiala, Punjab
2021-2024

THAPAR POLYTECHNIC COLLEGE
Diploma in Computer Science and Technology

Patiala, Punjab
2018-2021

ST. JOSEPH CONVENT SCHOOL
Grade 10 | ICSE

Firozpur, Punjab
2006-2018