

KANWAL RAJ RAHI



"Web & App Developer | Automation Engineer | Robotics Engineer | Mechanical Engineer | Manufacturing & Production Engineer"

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SUMMARY

Skilled Full Stack Web Developer with expertise in **JavaScript, TypeScript, React.js, Next.js, Node.js, Express.js, and MongoDB**, dedicated to building responsive, high-performance web applications and real-time systems using **WebSockets**. Passionate about writing clean, efficient, and maintainable code, while continuously exploring emerging technologies to stay at the forefront of the industry.

A highly motivated engineer holding a **Master's degree in Robotics and Automation Engineering**, with hands-on experience in **data-driven automation, machine learning, and IoT systems**. Adept at leveraging data science to drive innovation and transformation within the **automotive and technology sectors**.

Proficient in designing and implementing robust solutions across the full stack, integrating **AI applications** and scalable architectures. Committed to delivering exceptional user experiences and impactful, future-ready products.

EDUCATION

M.Tech in Robotics and Automation Engineering	Aug '22 - Jul '24
University School of Information and Communication Technology (USICT),	DELHI
<i>CGPA 7.9</i>	
B.Tech in Mechanical and Automation Engineering	May '10 - May '13
G.B. Pant Government Engineering College,	DELHI
<i>CGPA 7.54</i>	
Diploma in Tool and Die Making	Jun '05 - Jun '09
Tool Room and Training Centre,	DELHI
<i>percentage :- 63.33</i>	

PROFESSIONAL EXPERIENCE

PRODUCTION PLANNING CONTROL ENGINEER	Jun '13 - Jul '19
VONKO ENTERPRISES	DELHI
<i>Responsibilities</i>	
<ul style="list-style-type: none">Assembling electrical and electronic lighting systems, ensuring adherence to quality standards and timely deliveryCoordinated production schedules, optimizing resource allocation to meet project deadlines.	
TOOL ROOM ENGINEER	Jul '09 - Sep '09
TRACTEL TIRFOR INDIA PVT.LTD.	HARYANA
Selected at college campus interview	
<i>Responsibilities</i>	
<ul style="list-style-type: none">Managed the maintenance and repair of press tools and dies, ensuring operational efficiency and minimizing production interruptions.Designed and developed molds, contributing to the production of high-quality components.	

GATE (Graduate Aptitude Test in Engineering) – Qualified

- Data Science and Artificial Intelligence
- Mechanical Engineering
- Production Engineering

CERTIFICATIONS / TRAININGS

- Full Stack Web Development** – TechAltum (2024-2025)
- Data Structures and Algorithms** – GeeksforGeeks (2024)
- Data Science - IIT DELHI** (2024)

- Hands-on Training on DRONE DESIGN– GGSIPU, New Delhi (2024)
- Industrial Practical Training on 3D Printing & Prototyping - GGSIPU, New Delhi (2024)
- Industrial Practical Training on 3D Printing – IIT (BHU), Varanasi (2023)
- Hands-on Training on Embedded System & Internet of Things (IoT) – GGSIPU Innovation & Incubation Centre (2023)
- Hands-on Training on MATLAB - GGSIPU Innovation & Incubation Centre (2023)
- Workshop on Intellectual Property Right : issues and challenges - GGSIPU Innovation & Incubation Centre (2023)
- Industrial Practical Training – Central Workshop, Delhi Transport Corporation (DTC) (2011)

TECHNICAL SKILLS

- Database Management
- Artificial Intelligence & Machine Learning
- Mechatronics
- Mobile & Industrial Robotics
- Sensors & Automation for Industrial Applications
- Artificial Intelligence in Automation
- Internet of Things (IoT)
- Electrical & Electronics Engineering
- Computer-Aided Manufacturing (CAM)
- Manufacturing Engineering
- Sheet Metal Work & Casting
- Material Science & Strength of Materials
- Theory of Machines
- Reverse & Value Engineering
- Conventional & Non-Conventional Machining
- Conventional & Non-Conventional Testing
- Fluid Mechanics & Fluid Machinery
- Thermodynamics & Internal Combustion Engines (I.C. Engines)

PROJECTS

AI-Driven Robotics Systems: Developed algorithms to automate industrial robot operations using machine learning techniques.

- **Hospital Management System** – urdoctorcare.com
Technologies: Node.js, MongoDB
- **Video Streaming Web App** – aiadsoftheyear.com
Technologies: Next.js, TypeScript, MongoDB
- **RealTime Messenger App** – seekingworld.com
Technologies: Node.js, Express.js, Socket.io
- **Personal Portfolio Site** – kanwalrajrahi.com
Technologies: HTML, CSS, JavaScript (with payment integration)
- **Buy Web Apps** – buywebapps.com
An online platform for showcasing and selling pre-built web applications.
- **Inventory Management System** – inventorymanagement.deepthinkworld.com
Features: CRUD operations, real-time stock updates
- **E-Commerce Shopping Cart** – shopping.deepthinkworld.com
- **Social Media App** – socialmedia.deepthinkworld.com
Features: Real-time post feeds, user profiles, and chat system
- **Chatbot-Integrated Web Platform** – deepthinkworld.com
A modern website featuring an intelligent chatbot for user interaction and assistance.
- **Other Projects:** Expense Tracker, Event Planner, Quiz App, Task Manage

Software Proficiency

Programming Languages:

HTML

HTML5

CSS

CSS3

Bootstrap

Tailwind.

JavaScript

TypeScript

React.js
Node.js
Express.js
Rest API
Web Sockets
MongoDB
Next.js
JSON
Python
MATLAB
Shell
Bash
Google Drive

Hosting & Deployment:: Deep understanding of VPS Hosting and Cloud Hosting platforms.

Data Science & AI: Machine Learning, Artificial Intelligence (AI), Internet of Things (IoT), Data Analytics

Automation & Robotics: ROS, RoboAnalyzer, RT Toolbox3, Mechatronics, Industrial Robotics

Design & Engineering Tools: AutoCAD, SolidWorks, Fusion 360, Arduino IDE

STRENGTHS

Highly Reliable and Dedicated Professional
Quick Learner with Strong Analytical Abilities
Creative Problem-Solver with an Innovative Mindset
Adaptable to New Challenges and Emerging Technologies

LANGUAGES

HINDI,
ENGLISH

HOBBIES

"Playing Cricket,, Volleyball, Badminton, and Chess.",

Prompt Design and Engineering with AI Tools

AI Assistants & Prompt Platforms:

ChatGPT, Gemini, DeepSeek, Genspark AI, qwen.ai

Code Generation & Developer Productivity:

Cursor, Windsurf, Codeium, GitHub Copilot, Trae Copilot, FireBase Studio

Visual Content Creation:

DALL-E
