

Ashwani Kumar Arya

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PROFESSIONAL SUMMARY

Computer Science undergraduate skilled in Java with hands-on experience in full-stack development (MERN). Strong interest in AI, cloud computing, and database systems. Proven ability to build scalable web applications and optimize performance. A quick learner who thrives on solving problems and continuously improving through hands-on practice.

TECHNICAL SKILLS

Programming Languages: Java, Python

Web Development: HTML, CSS, JavaScript, React.js, Node.js, Express.js, MongoDB

Tools & Platforms: Git, Firebase, VS Code

Database: MySQL, MongoDB

EXPERIENCE/PROJECTS

FLARE- FULL STACK DELIVERY APP [Link](#)

- Designed and developed a MERN stack application for grocery, food, and sports item delivery.
- Implemented secure authentication and role-based access control (admin, vendor, customer).
- Built a dynamic shopping cart with real-time updates to improve checkout flow and architected the system to be scalable for handling larger order volumes in the future.

TRENDMIND- AI MODEL DISCOVERY PLATFORM [Link](#)

- Engineered a web app for exploring, comparing, and downloading trending AI models.
- Implemented user authentication for personalized model access.
- Developed detailed model cards with metrics and side-by-side comparison features and designed a responsive interface with React.js to ensure accessibility across devices.

NETWORK SCANNER [Link](#)

- Developed a full-stack app to scan local networks, identify active devices, open ports, and OS types.
- Optimized and implemented backend scanning logic with Node.js & Express.js for accurate detection and created a React.js frontend to visualize scan results in real-time.

LIVING EARTH- A 3D GLOBAL EVENT VISUALIZER [Link](#)

- Built an interactive 3D climate visualization tool using React, Three.js, and WebGL to render high-fidelity planetary data.
- Integrated NASA EONET and Open-Meteo APIs to map real-time natural disaster events (wildfires, storms) onto a 3D globe with precise geospatial positioning.
- Implemented custom GLSL shaders for realistic atmospheric scattering and a dynamic day/night cycle synchronized with real-world UTC time.

CERTIFICATIONS

- **NPTEL** – Introduction to Machine Learning (Regression, Classification, Model Evaluation) [Link](#)
- **GOOGLE** - The Bits and Bytes of Computer Networking (Networking Fundamentals, TCP/IP, DNS) [Link](#)
- **IBM** - Cyber Security Analyst (Network Security, Risk Analysis, Threat Detection) [Link](#)
- **IAMNEO** – MERN Stack Developer (MongoDB, Express.js, React.js, Node.js) [Link](#)

EDUCATION

VIT BHOPAL UNIVERSITY

Bachelor of Technology

Major in Computer Science and Engineering

Cumulative GPA: 8.86/10

Relevant Coursework: Data Structure and Algorithm, Database Management System, Operating System

Bhopal, Madhya Pradesh
2023-Present

BAL BHARATI PUBLIC SCHOOL

Class 12 Percentage: 91.2%

Ludhiana, Punjab
2023