Mohammed Adil

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Summary:

Software Engineer proficient in **full-stack development and AI/ML integration**. Skilled in **JavaScript, TypeScript, MERN** stack, **RESTful APIs, authentication,** and **database optimization**. Experienced in security (**JWT, CORS**), **cloud deployment**, and performance tuning, with a strong foundation in **data structures & algorithms.**

Education:

Bachelor of Engineering (B.E.) in Artificial Intelligence & Machine Learning
*Muffakham Jah College of Engineering and Technology | **CGPA: 7.5** | Expected Graduation: July 2025*

Projects:

1. ### Interplanetary Plantation simulation (Major Project, IOT, Machine Learning, React)
   - Developed an Interplanetary Plantation Simulation using Python, environmental modeling, and AI to simulate extraterrestrial agriculture systems. Integrated data analytics for ecosystem behavior and sustainability analysis.

2. ### AR Smart Glasses (Raspberry Pi, Linux, OpenCV, Python, Machine Learning)
   - Developed real-time gesture-controlled AR glasses using OpenCV and Raspberry Pi; improved responsiveness by 40% via optimized multi-threading.

3. ### React Admin Dashboard (MERN Stack, JWT, Vercel)
   - **React Admin Dashboard**: Created a role-based MERN admin dashboard with JWT auth and Chart.js visualizations; deployed on Vercel with a 30% speed boost.

4. ### Women's Safety Platform (MERN Stack, Firebase, Google Maps API, Twilio)
   - Designed a live location-sharing safety webapp with Twilio-based SOS alerts, Firebase auth, and Google Maps API; optimized backend response by 30%.

Experience:

1. ### Tech Head– IEEE Geoscience and Remote Sensing Society (GRSS)
   - **Led the technical direction of IEEE GRSS**, overseeing the development and deployment of web platforms and digital infrastructure for events and initiatives.
   - **Coordinated tech teams** to execute seminars, hackathons, and student development programs, driving innovation in geoscience and AI through hands-on engagement.

2. ### Freelance Experience: Beyond Threads (E-Commerce Platform Developer)
   - **Developed a custom MERN stack e-commerce platform** for Beyond Threads, featuring secure JWT authentication, product filtering, and integrated payment gateway.
   - **Improved site performance and UX**, achieving a 25% reduction in load time and delivering a responsive, brand-aligned user interface.

Achievements:

- **Runner-up at Expo Hackathon 2022** – Developed a **real-time analytics dashboard** using **React, Node.js, and MongoDB**, ranked **Top 10 out of 800+ participants**.
- **Winner of Intercity Innovators Fest** – Built an **IoT-based automation system**, earning a **cash prize** for innovative tech solutions.
- **Top 5 in Hack Prix (National Hackathon)** – Developed **AR-based smart glasses** using **Python (OpenCV, ML)** for **gesture-based control & navigation support**.

Technical Skills:

- **Programming Languages:** JavaScript, TypeScript, Java, Python
- **Web & Backend:** Node.js, Express.js, React.js, REST APIs, JWT Authentication
- **Databases:** MongoDB, SQL
- **Cloud & Hosting:** Vercel, Firebase, CI/CD (GitHub Actions, Docker Basics)
- **Tools & Version Control:** Git, GitHub, VS Code
- **Soft Skills**: Team Collaboration, Problem-Solving, Communication, Agile Methodologies