Om Patil

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Skills

Languages: C++, Python, Java, HTML, CSS, JavaScript, TypeScript, SQL
Frameworks and Technologies: React.js, Node.js, Express.js, Socket.io, Tailwind CSS, Pandas, Microservices.
Cloud, DevOps and Databases: MongoDB (Atlas), MySQL, Redis, AWS (Basics), RabbitMQ, Render, Vercel, CI/CD Pipelines.
Tools and Libraries: Git, GitHub, VS Code, Postman, Mongoose, Multer, Cloudinary, Redux, Excel.

Education

Vellore Institute of Technology   Expected May 2026
BTech Major in Computer Science and Engineering
  Cumulative GPA: 8.34/10

Projects
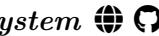
ZenChat | *Full Stack Real-Time Messaging Platform* 🌐 ⚙   *Dec 2025*
- Built and deployed a full-stack chat application with a live custom domain (zenchat.online), developing scalable REST APIs using Node.js and Express to handle user authentication, chat history, and efficient data retrieval from MongoDB.
- Engineered real-time, bi-directional communication using Socket.io (WebSockets), enabling instant message delivery without page refreshes.
- Engineered a fault-tolerant backend with self-healing RabbitMQ consumers and automated heartbeat monitoring to eliminate serverless cold-starts and ensure 99.9% uptime.
- Solved complex CORS (Cross-Origin Resource Sharing) challenges to securely bridge the Frontend (hosted on Vercel) with the Backend (hosted on Render).
- **Technologies Used:** React, Node.js, Socket.io, TypeScript, Vercel, Render

Agro-Aid | *Precision Agriculture Recommendation System* 🌐 ⚙   *July 2024 – Sep 2024*
- Contributed as Frontend Developer in a collaborative team environment, architecting a responsive, mobile-first interface using HTML5, CSS3, and JavaScript.
- Developed machine learning models (95% + accuracy) for the prediction of crop yields and early detection of disease.
- Engineered weather forecasting functionality with precision 80% +, enabling smart irrigation and fertilization schedules.
- Integrated the Google Translate Widget to enable instant, real-time Multi-Language Support across the entire platform, breaking language barriers for regional farmers.
- **Technologies Used:** HTML, CSS, JavaScript, Machine Learning

Leadership and Campus Engagement

Event Management Core Member, Marathi Club, VIT Bhopal University   2024 - 2025

- Orchestrated annual Ganpati Festival for 500+ students, managing all logistical and operational aspects.
- Co-led end-to-end event operations as a core member, coordinating with programs and stage performances, managing vendors and run-sheets, and resolving on-site issues to deliver seamless, on-schedule experiences.
- Coordinated full day cultural events ensuring seamless execution and high attendee satisfaction.
- Increased event budget by 15% through successful sponsorship acquisition and strategic financial planning.

Notable Certifications

- **Generative AI Using Watsonx – IBM** Certified in GenAI using Watsonx. 🔗
- **DSA in C++ by Coding Ninja:** Certified in C++ programming and D.S.A (Excellence Certificate, above 90%). 🔗
- **SmartBridge Full Stack [MERN]:** Successfully completed the course with hands-on experience. Crafted and deployed a complete MERN stack application. 🔗