Somesh Tiwari

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Kanpur, Uttar Pradesh, India

EDUCATION

KIET Group of Institutions   Ghaziabad, Uttar Pradesh
Bachelor of Technology in Information Technology   *Sep 2024 – Oct 2028*
- Affiliated with Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow
- Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks

EXPERIENCE

Backend Developer Intern   Jul 2025 – Sep 2025
Sarvagya Nirakar Community   *Remote*
- Developed and optimized RESTful APIs using Node.js and Express.js, improving API response time by 30% through efficient query optimization and caching strategies.
- Implemented secure authentication (JWT, Google OAuth 2.0) ensuring robust user session management.
- Designed and integrated MongoDB schemas with indexing, reducing database query execution time by 40%.
- Collaborated with the team to architect scalable backend infrastructure supporting 10,000+ concurrent users.
- Wrote comprehensive API documentation and unit tests achieving 85% code coverage using Jest and Mocha.

PROJECTS

Smart Coder | *React, Node, WebRTC, Socket.io, Compiler API* | Link   2025
- Built a real-time multiplayer coding platform allowing users to invite friends to private rooms for 1v1 coding battles.
- Integrated **Voice Chat** using WebRTC and a live leaderboard system to enhance competitive interaction.
- Implemented a code execution engine where users solve algorithmic problems and get instant results.

QuickShare | *Node.js, Express, MongoDB, Cloudinary* | Link   2025
- Developed a secure web application for seamless file sharing, integrating Cloudinary for robust cloud storage.
- Implemented features for generating unique, downloadable links for shared files, ensuring high availability.

BunkBook | *Node.js, REST APIs, CyberVidya Backend* | Link   2025
- Created a utility tool to track attendance and manage dynamic timetables by fetching data via CyberVidya APIs.
- Built a 'bunk margin' calculator to help students manage attendance while maintaining required percentages.

LPGParent | *IoT, ESP8266, React Native, Firebase* | Link   2024
- Designed a smart IoT device using ESP8266 and load sensors for real-time cylinder weight monitoring and leak detection.
- Integrated Firebase for live data analysis and implemented an **auto-booking feature** triggered by low gas levels.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3, C++
Backend: Node.js, Express.js, RESTful APIs, GraphQL, Microservices, WebRTC
Databases: MongoDB, PostgreSQL, MySQL, Redis, Firebase, Database Optimization
Cloud/DevOps: AWS (EC2, S3, Lambda), Docker, Git/GitHub, CI/CD, Linux
Tools: JWT, OAuth 2.0, Socket.io, Postman, Jest, Mocha, React Native

CERTIFICATIONS

AWS Certified AI Practitioner – Amazon Web Services (Credly Verified)
AWS Certified Cloud Practitioner – Amazon Web Services (Credly Verified)
From Relational Model (SQL) to MongoDB's Document Model – MongoDB University
Google Cloud Certifications – Google Cloud

ACHIEVEMENTS & LEADERSHIP

Winner, Innotech '25: Secured top position in the departmental technical innovation competition.
District Rank Holder (2023): Achieved Top 6th rank in Unnao District in Class 12th Boards.
Academic Felicitation: Honored by the District Magistrate (DM) of Unnao for academic performance.
Google Developer Groups (GDG): Selected to participate in prestigious GDG developer events.