ALOK KUMAR
Software Developer

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Summary

Full Stack Software Developer with expertise in MERN stack (MongoDB, Express.js, React.js, Node.js). Experienced in designing secure, scalable, and high performance web applications. Proficient in RESTful API development, database design, cloud deployment, and Agile/Scrum methodologies. Strong problem solving, debugging, and code optimization skills with a focus on delivering business value.

Skills

- **Programming Languages:** Python, Java, JavaScript, TypeScript, SQL, HTML5, CSS3
- **Frameworks/Libraries:** React.js, Angular, Node.js, Express.js, Bootstrap
- **Databases:** MongoDB, MySQL
- **Tools & Platforms:** Git, GitHub, Figma, Excel, REST APIs, Postman, Docker, CI/CD (basic)
- **Methodologies:** Agile, Scrum, SDLC, Test Driven Development (TDD)
- **Core Strengths:** Problem Solving, Code Optimization, Collaboration, Communication

Experience

SQL Developer Intern   June 2025 – July 2025
Elevate Labs (Remote)   *Tools: SQL, MySQL, Excel*
— Designed and applied an **Airline Reservation System database** with optimized schema and relational integrity.
— Created SQL queries, triggers, and stored procedures reducing query execution time by 20%.
— Developed Excel dashboards visualizing occupancy, bookings, and cancellations to support decision making.

Projects

Skill Swap Platform | *React.js, Node.js, MongoDB, Express.js*   **2025**
— Built a full-stack e-learning platform supporting **secure registration with OTP verification (NodeMailer)**.
— Implemented **role-based access**: learners, educators, and admin with full system control.
— Integrated **payment gateway** for enrollment and encrypted authentication for security.
— Developed a **profile-matching system** to connect learners with suitable educators.
— Optimized backend APIs reducing response latency by 30%.
— Source Code: GitHub Repository - https://github.com/Alokkumarkaran/skill-swap

Real-Time Chat Application | *React.js, Node.js, MongoDB, Socket.IO*   **2024**
— Designed and deployed a chat platform with **private messaging, group chats, and media sharing (images, audio, video)**.
— Developed backend with Express.js and Socket.IO ensuring **scalable, low-latency real-time communication**.
— Execute advanced features: typing indicators, message edit/delete, push notifications, disappearing messages.
— Optimized MongoDB schema to handle **concurrent users and faster message retrieval**.
— Built a responsive React UI supporting **custom branding and accessibility**.
— Source Code: GitHub Repository - https://github.com/Alokkumarkaran/real-time-chat

Certifications

- **Front End Web Developer Certification** (Wingspan, Mar 2025) — Verification Link
- **Python 3 Programming** (Coursera, 2023)
- **ReactJS, Angular, JavaScript, TypeScript, HTML5, CSS3** (Infosys Springboard, 2024)

Education

Master of Computer Applications (M.C.A)   **Graduated: 2025**
Chandigarh University, Mohali

Bachelor of Computer Applications (B.C.A)   **Graduated: Dec 2022**
Patliputra University, Patna