Alok Ranjan

⚲ Chandigarh,India   ✉ alokr5393@gmail.com   ☏ 7634015552   🔗 alokranjan.vercel.app   in alok-ranjan89

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Summary

Entry-level Software Developer with strong fundamentals in Data Structures, Algorithms, and full-stack web development. Hands-on experience building AI-powered and cloud-enabled applications using React, Node.js, Python, and MongoDB. Familiar with the complete Software Development Life Cycle (SDLC), REST APIs, and containerized deployments using Docker and Kubernetes. Passionate about writing clean, maintainable code and eager to contribute to scalable, real-world engineering solutions.

Education

Chandigarh Engineering College   *August 2022 – May 2026*
B.Tech in Electronics and Communication Engineering

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Database Management System

Skills

Programming Languages: Python, C++, JavaScript, HTML, CSS, SQL

Frameworks & Libraries: React, Node.js

Databases: MySQL, MongoDB

Cloud & DevOps: AWS (S3, EC2, IAM), Docker, Kubernetes, Git, GitHub Actions (CI/CD)

Projects

Interviewly – AI Interview Preparation Platform   *github* ⬏

- Built an AI-powered web application to generate personalized interview questions based on role, experience, and skills using Google Generative AI API.
- Developed a responsive frontend using Next.js, React, and Tailwind CSS with efficient form handling and validation using React Hook Form and Zod.
- Followed modular, reusable component architecture to ensure scalability and maintainability.
- Integrated REST-based workflows to support dynamic data flow and future backend extensibility.

Smart Attendance System – AI-Based Face Recognition   *github* ⬏

- Developed an AI-based attendance system using Python, OpenCV, and Flask achieving over 95% real-time face recognition accuracy.
- Implemented liveness detection (eye blink and head movement) to prevent spoofing attacks and improve system security.
- Designed a microservice-based backend using Node.js and MongoDB with a React.js dashboard for real-time attendance visualization.
- Deployed containerized services using Docker to enable scalable and reliable application deployment.

Certificates

- **C++ Programming Masterclass** – Udemy (Issued: March 2, 2024)
- **MongoDB Basics** – MongoDB Atlas (Issued: September 15, 2024)
- **Cloud Computing with AWS** – Udemy (Instructor: Stephane Maarek, Issued: June 2025)
- **DotNet Full Stack** – Wipro TalentNext (Issued: October 2025)