Alok Ranjan

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Summary

Entry-level Software Developer skilled in Python, C++, JavaScript, and full-stack development with hands-on experience in building AI-driven and cloud-enabled applications. Strong understanding of SDLC (design, development, testing, deployment), analytical problem-solving, and clean code practices. Experienced in React, Node.js, AWS, and containerized environments. Curious, collaborative, and eager to contribute to enterprise-scale hybrid cloud and AI transformation projects.

Education

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

- **Coursework:** Data Structures and Algorithm, Operating Systems, DataBase Management System

Skills

- **Programming Languages:** Python C++, JavaScript, HTML, CSS, SQL
- **Frameworks/Libraries:** React, Node.js
- **Databases:** MySQL, MongoDB
- **Cloud and DevOps Tools::** AWS (S3, EC2, IAM), Docker, Kubernetes, Git, GitHub Actions (CI/CD)

Projects

Interviewly
github.com/alokranjan89/interviewly

- Developed an AI-based web application that generates personalized interview questions based on user input using the Google Generative AI API.
- Built with Next.js, React, and Tailwind CSS for smooth UI and fast rendering; integrated React Hook Form and Zod for form handling and validation.
- Tools Used: Next.js, React, Tailwind CSS, Google GenAI API, React Hook Form, Zod

Smart Attendance System
github.com/alokranjan89/Smart-Attendance-System

- Developed an AI-powered attendance system using Python, OpenCV, and Flask, achieving 95%+ real-time face recognition accuracy with automated attendance marking.
- Implemented liveness detection (blink + head movement) to eliminate spoofing attempts (photos/screens), improving system security by 100%.
- Built a microservice-based architecture with Node.js + MongoDB backend and a React.js dashboard, enabling <1s real-time attendance updates.
- Tools Used: Python, OpenCV, Flask, Node.js, MongoDB, React.js, Docker, Kubernetes, CI/CD

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: Oct 2025)