

# Aman Kumar Singh

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## SUMMARY

- Frontend and Backend Developer Intern at Untitled Ventures, contributing to **Lagoon**, a recruiting software, by developing scalable microservices and integrating key functionalities. Designed and implemented a custom, flexible **PayPal-integrated billing system**, enabling seamless subscription management. Additionally, worked on LinkedIn automation using web scraping and bot features to enhance recruitment workflows.
- Finalist in **Smart India Hackathon 2024**, ranked **Top 12** nationwide in the ISRO Bhartiya Antariksh Hackathon 2024.

## EDUCATION

**Dr. Akhilesh Das Gupta Institute of Technology, B-Tech (3rd yr) in Artificial Intelligence and Data Science** | New Delhi, India, 1st Sem: **8.0 CGPA**, 2nd Sem: **8.7 CGPA**, 3rd Sem: **9.0 CGPA**, 4th Sem: **9.1 CGPA** June 2024

## ACHIEVEMENTS

- ISRO BAH'24 Grand Finalists** - Made it to the Top 12 across India with our project "Generation of Rooftop Solar Energy Potential Map Using Machine Learning/Deep Learning Based Building Footprint Extraction" Bhartiya Antariksha Hackathon 2024  
India, Hyderabad at NRSC
- SIH'24 Grand Finalists** - Among 299,352 students and 57,378 ideas, we made it to the finals with our project on "Automatic Road Extraction and Alert Generation for New Roads" Smart India Hackathon 2024  
Smart India Hackathon 2024 India


## CERTIFICATES

- AICTE (IBM) Certification** AICTE, IBM  
India 2024 Bharatiya Antariksh
- ISRO BAH'24 Grand Finalist - Top 30** Hackathon, ISRO  
India, Hyderabad (NRSC) 2024

## EXPERIENCE

- AICTE (IBM), AI and Cloud Intern (Offered By Edunet Foundation)** | Remote (New Delhi, India) June 2024 - July 2024
- Interned with **IBM** Cloud Tools and Platform, gaining hands-on experience with cutting-edge cloud technologies and innovative projects.
  - Enhanced proficiency in IBM's suite of cloud services, tools, and platforms, contributing to IT modernization and digital transformation initiatives.
  - Applied learned concepts to real-world situations, analyzed problems, and collaborated with teams to develop solutions.
- ISRO BAH'24, Hackathon 2024** | (Hyderabad-NRSC, India) May 2020 - Aug 2020
- Selected in the top 12 teams and winner of our problem statement (PS-2) by applying **Machine learning** and **deep learning** to generate a rooftop solar energy potential map.
  - Collaborated with teammates Abhigyan Ranjan, Yash Pandey, and Rakshit Dabral, with mentorship from Sidhartha Bhuyan and Avinash Sir, showcasing strong teamwork and communication.
  - Gained recognition and valuable learning from a prestigious hackathon, enhancing technical skills, networking, and industry insights.
- Lagoon, Startup (Backend Developer)** | India Sept 2023 - Present
- Currently working with **Lagoon**, a startup focused on building an innovative **hiring software platform**.
  - Gained valuable knowledge and production-ready experience while developing and maintaining scalable features, contributing to a 25% improvement in system performance.
  - Faced and overcame multiple challenges, including integrating **PayPal as a payment gateway** with custom subscription plans.
  - Designed and implemented a flexible payment solution that allowed users to select, modify, and process custom subscription plans seamlessly.
  - Collaborated closely with cross-functional teams to optimize user experience and improve platform reliability.
  - Utilized modern web technologies such as **React.js, Node.js, and MongoDB** to ensure efficient and secure application performance.

## SKILLS

Language Python, C/C++, Java, Git, Bash, Javascript  
 Framework FastAPI, Tkinter, Flask, Streamlit  
 Web Dev • **Front-End Development** (ReactJS, NextJS, EJS, JQuery) • **Back-End Development** (Node.js, Express.js, Socket.io)  
 More Skills SQL, PostgreSQL, MongoDB, Mongoose, • API Integration, • Version Control Systems: Git, Github, Latex, DSA  LeetCode  
 Soft Skills • Debugging and testing, • Problem-Solving

## PROJECTS

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**Farmers' App – A React Native Application for Farmers**  Sept 2024

- Developed a React Native app to assist farmers with fertilizer recommendations, watering schedules, and climate data.
- Integrated Firebase for authentication, data storage, and real-time updates, and IoT sensors for real-time climate data.

**Generative AI Image Creator and Community Platform – A Full Stack MERN Application**  Aug 2024

- Built a MERN app integrating OpenAI for 1024x1024 image generation.
- Designed a community homepage for image sharing with Cloudinary storage.

**Age-Gender Detection | Machine Learning, OpenCV and Caffe**  April 2024

- Developed real-time age and gender detection with OpenCV and Caffe.

**Text-to-SQL LLM Application – A Natural Language Interface for Database Queries**   Aug 2024

- Created a Text-to-SQL app with LLM to convert natural language to SQL.
- Built Node.js backend with MongoDB for query results and React frontend.

**Web Development Projects - E-commerce website(ReactJs), Chat-App**  April 2023 - Jan 2024

- Developed a real-time chat application with secure user authentication and instant messaging capabilities using Appwrite.

**100 Days of Python Bootcamp Projects – Python projects from Basic to Advanced**

- Created projects like Band Name Generator, Blackjack, Hangman, Weather App, and Web Scraping, gaining hands on experience with Python libraries.