Shubh Kumar

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SUMMARY

Electronics & Communication Engineering graduate with strong foundations in robotics, automation, and software development. Proficient in Java, Python, Spring Boot (Intermediate), Arduino, and MySQL, with proven problem-solving and analytical skills. Recognized for innovation and teamwork through national-level competitions and technical achievements. Passionate about leveraging technical expertise to build intelligent automation and software solutions, contributing to innovation and sustainable growth.

EDUCATION

- Bachelor of Technology in Electronics & Communication Engineering | Asansol Engineering College, Asansol (CGPA: 7.68) — 2021-2025
- XII (CBSE) | Rajkamal Saraswati Vidya Mandir, Dhanbad (74.5%) — 2018-2020
- X (CBSE) | Rajkamal Saraswati Vidya Mandir, Dhanbad (83.2%) — 2018

SKILLS

- Programming & Databases: C, Java, MySQL, OOPS, JSP, Spring Boot
- Version Control : Git, Github, Gitlab
- Embedded Systems & IoT: Arduino Boards, Raspberry Pi, ESP Boards
- Development & Testing Tools: Eclipse, Arduino IDE, intellij IDE
- Operating Systems: Linux, Windows

PROJECTS

Chat-in-terminal : Anonymous Chat | Spring Boot, WebSocket, Maven, Docker, REST API, Thymeleaf — OCT 2025
- Developed a real-time, terminal-style chat application using Spring Boot, WebSocket (STOMP), and H2 Database. Implemented live communication between users through dynamic chat rooms accessible via unique URLs. Integrated persistent message storage and retrieval APIs, and containerized the application using Docker for seamless deployment.

CloudBucket : Cloud Storage | SpringBoot, Thymeleaf, MySql, HTML, CSS, JS, Docker — Mar 2025
- CloudBucket is a lightweight Spring Boot application that provides a simple cloud storage experience. It supports user signup and login using Spring Security with an H2 database, and allows authenticated users to upload, view, and download files stored on the local filesystem.

Game-DB-Console | Java, JSP, HTML, CSS, JS, Servlet — Jul 2024
- Designed and implemented a scalable web application using Java to facilitate data and information storage and management for gamer profiles, including game statistics and user interactions.
- Utilized small volumes of user data, ensuring high availability and performance.

Ethan: Assistance-Based E-Waste Robot | E-waste, python, E-waste — Sept 2023
- This human-sized robot, inspired by Call of Duty's "Ethan," is built from e-waste with dual displays for interaction and college info. It detects and faces users with ultrasonic sensors and has a lightweight AI for conversations.

Pnumated Robotic arm | Arduino, solenoid valve, air compressor, relay module — Feb 2023
- Designed for precise and lightweight control using air pressure. It can mimic human body movements with the integration, making it suitable for various applications, including the automation industry.

ACHIEVEMENT

- Got the jury award in a hardware club competition.
- Organized webinar sessions and was a speaker in IEI Student Chapter.
- Secured 9th position among 250 teams at a national level competition.
- Awarded a Certificate of Appreciation for active participation in Infocomm 2022 , an ABP initiative, in recognition of contributions to the knowledge and efforts behind science and technology project displays.