Arnav Bhardwaj

MALE | 21 YRS | Arnavkrishna50@GMAIL.COM| +91-6399952311 | GitHub:

EDUCATION

Name of Course	Year	Institution	Marks
B. TECH CSE	2023-27	Symbiosis Institute of Technology, Pune	7.0
CBSE (Class XII)	2022	Gulab Rai Montessori School, Bareilly	87.8%
CBSE (Class X)	2020	Gulab Rai Montessori School, Bareilly	88.0%

ACADEMIC PROJECT

SafeRoute – (Crime-Aware Navigation Platform) (Docker, Flask, PostgreSQL, PostGIS, H3, Mapbox, Valhalla, Geolocation API)	• Developed a backend-powered navigation platform recommending safest travel routes in Delhi based on live and historical crime data. • Used PostGIS and Uber's H3 for spatial crime density analysis and regional safety scoring. • Integrated Valhalla for custom route computation and optimized path generation. • Employed Geolocation API to dynamically capture user's real-time location for personalized route recommendations. • Visualized crime-prone areas and safer routes using Mapbox, ensuring clarity and interactivity. • Backend built with Flask and containerized using Docker for modular deployment and scalability. • Submitted to IEEE Conference
Career Guidance System -(Spring Boot, PostgreSQL, JWT, Coursera API)	• Building a secure platform for personalized job and course recommendations. • Implements JWT-based authentication and stores user progress, skills, and goals. • Integrated Coursera API to dynamically recommend courses based on interests and career paths. • Features skill tracking and profile analysis for better career planning.
Smart Water Irrigation System(ESP8266, Soil Moisture Sensor, Ultrasonic Sensor, Blynk, OpenWeather API)	• Designed an IoT-based automated irrigation system with real-time weather data integration. • Controlled through Blynk app with soil moisture feedback and water tank monitoring. • Enabled efficient water usage through automated pump control.
Project-Based Clan Platform (Spring Boot, AI Integration(Spring AI))**(Upcoming)**	• A Discord-style platform where students form exclusive clans for research/projects. • Entry into clans via AI-powered resume filtering and clan committee review. • Launch planned for university-wide collaboration.

TECHINAL SKILLS

Languages	Python, C, C++, Java, Shell Scripting, SQL
Framework and libraries	Flask, Spring Boot, JDBC, Blynk
Geospatial & Routing	PostGIS, H3, Mapbox, Valhalla
Tools & Platforms	Docker, Git, GitHub, Postman, Mapbox, Valhalla, Blynk App
IoT & Hardware	Aurdino, ESP8266, Familiar with integration, calibration, and real-time data collection using a variety of sensors in microcontroller-based systems.
Authentication	JWT, Role-Based Access Control
Currently Learning	Machine Learning (Supervised & Unsupervised), AI Resume Filtering

CERTIFICATION AND ACHIEVEMENTS

College	● Intro to Operating Systems 2: Memory Management -Value-added course completion, [SIT, Pune], [April 2025]

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