Welcome back! Your last visit was on Saturday, June 21, 2025 at 12:53:12 AM GMT+5:30

ARNAB SINGH

WELCOME

EDUCATION

EXPERIENCE

PROJECTS

ACHIEVEMENTS

SKILLS

ADDITIONAL TASKS

ARNAB SINGH

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WELCOME TO MY PROFESSIONAL PORTFOLIO

Hi, my name is **Arnab Singh**. I am a passionate computer science graduate student at the University of Dayton. I love working on intelligent systems, automation tools, and creating data-driven applications that solve real-world problems. This is my interactive resume, where you can learn about my journey, skills, and experiences.

> *QUOTE OF THE DAY*
>
> *"Life happens in the river, not the shore."*
>
> *— Maxime Lagace*

EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE   Jan 2025 – Dec 2026
University of Dayton, Ohio
Current GPA: 3.7 / 4.0

BACHELOR OF TECHNOLOGY IN COMPUTER ENGINEERING   2020 – 2024
Netaji Subhas University of Technology, Delhi
CGPA: 7.24 / 10

EXPERIENCE

SOFTWARE ENGINEERING INTERN
Defence Research and Development Organisation (DRDO), India

May 2023 – July 2023

- Developed an AI-powered facial recognition system for drones, combining image classification with GPS tracking.
- Built a real-time detection pipeline using OpenCV and TensorFlow, optimizing accuracy under aerial constraints.
- Documented technical specifications and interfaced models with embedded systems for testing in simulated environments.

DATA ANALYST INTERN   Dec 2023 – Feb 2024
Army Base Workshop, India

- Designed Power BI dashboards to monitor distribution of critical COVID-19 medical supplies across military hospitals.
- Integrated real-time inventory data from 20+ hospitals via RESTful APIs, improving procurement visibility by 40%.
- Automated reporting scripts in Python using Pandas and SQL queries to streamline command-level decisions.

PROJECTS

BLOODBANK+: BLOOD DONATION MANAGEMENT SYSTEM

Developed a full-stack JavaFX application to manage donor and recipient records, blood stock inventory, and hospital allocations.

Integrated MySQL via JDBC, implemented role-based authentication, and ensured secure record transactions using prepared statements.

DELAY-TOLERANT TASK OFFLOADING (FOG IOT)

Designed and simulated an RL-based algorithm for optimizing energy-efficient task offloading in fog-enabled IoT environments.

Achieved latency reduction by 7% using Actor-Critic architecture on Colab, and visualized performance trends via Matplotlib.

SALES & REVENUE ANALYTICS DASHBOARD

Created an interactive Power BI dashboard that visualized monthly revenue, product category sales, and year-over-year trends.

Integrated Python's Prophet for forecasting and optimized SQL queries for efficient backend data aggregation.

ACHIEVEMENTS

- Scored ~98.2 percentile in JEE Main 2020.

TECHNICAL SKILLS

Java

Expert

Python

Advanced

SQL

Advanced

JavaScript

Intermediate

HTML/CSS

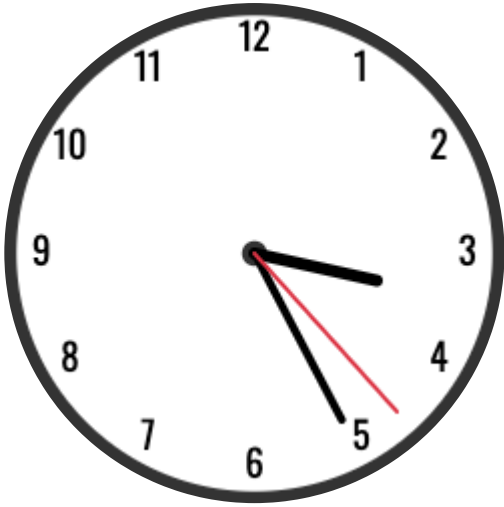| Intermediate |
| --- |

React.js

Beginner

ADDITIONAL TASKS

DIGITAL CLOCK (OHIO TIME)

Friday, 20 June 2025 • 03:25:23 PM EDT

ANALOG CLOCK

Current time in Ohio (Eastern Time).

DOWNLOAD RESUME

Click here to download the Resume!

JOKE OF THE MOMENT

I didn't vaccinate my 10 kids and the one that survived is fine!

Disclaimer: Joke content is provided by JokeAPI. I am not responsible for the content shown below.

COMIC OF THE DAY (VIA XKCD)

Disclaimer: Comic image is fetched from XKCD's public API. I am not responsible for the content shown below.

LIVE WEATHER IN DAYTON, OHIO

Temperature: 29.6°C

Condition: Overcast

Powered by WeatherAPI.com

Visitors

🇮🇳 1

Flag Counter

Learn more about the [Web Application Programming and Hacking (WAPH)](#) course.