

# AARUSHI DHAWAN

## DATA SCIENCE AND SOFTWARE ENGINEERING ENTHUSIAST

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### EXPERIENCE

#### Research Intern

##### Defence Research and Development Organisation (DRDO)

06/2024 - 08/2024

- Enhanced computational efficiency of parallel programs by almost 25% through GPU Optimization on NVIDIA's GeForce MX450 using CUDA in C++ and Python.
- Developed and visualized a Line of Sight Algorithm using GDAL for multiple height fields across different regions of the country, handling 1M+ data points across the country for efficient geospatial analysis.

#### Intern

##### TIC Council

06/2023 - 07/2023

- Co-authored a research paper mapping standards and regulatory frameworks in cybersecurity. ([link to paper](#))

### PROJECTS

#### GPS-Based Camera Access and Device Locking Application

- Developed an Android app to control camera access and device locking.
- A user's device gets locked instantly if they open their camera in a prohibited location, set using GPS and Wi-Fi geofencing.
- Improves user security by automating camera permissions based on location.

#### Nyaya Tech Chatbot (SIH'24 Project)

- Developed an interactive chatbot for the Ministry of Law & Justice using Django and Python, enhancing access to judicial information for over 10,000 users.
- Employed web scraping with BeautifulSoup and Pandas to dynamically extract legal data from multiple sources.
- Simplified access to judicial information, improving user experience and reducing inquiry response time

#### Symbiosis Classifieds

- Developed using Java JDBC and MySQL on NetBeans
- Solves the day to day problems of the student community of our college by helping them find housing and selling second hand items.
- Entirely focused on streamlined user experience and easy database management.

### EDUCATION

#### B.Tech in Computer Science and Engineering

Symbiosis Institute of Technology, Pune

2022 - 2026

- Relevant Coursework: Operating Systems, Database Management, Computer Organization, Computer Networking, Financial Mathematics

#### High School Diploma in Science(PCM)

Mater Dei School, New Delhi

2012 - 2022

- Class X: 98.2% | Class XII: 86.6%
- Top Scorer in Maths and Science.

### SUMMARY

PRE FINAL YEAR COMPUTER SCIENCE STUDENT

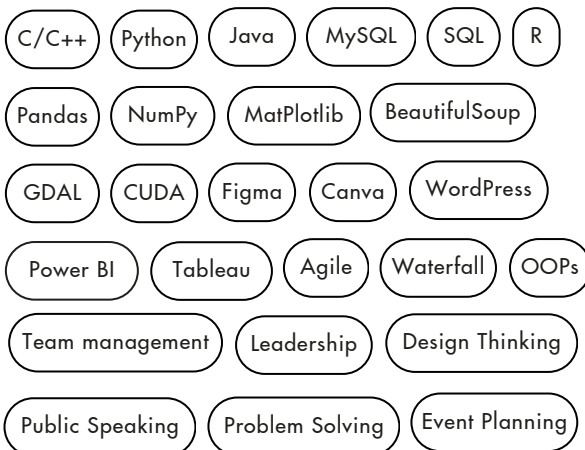
AT SYMBIOSIS INSTITUTE OF TECHNOLOGY-

Passionate about design thinking and solving real-world problems. Eager to learn, with experience in data science, parallel programming, and project management. Strong in team collaboration and leadership.

### CERTIFICATIONS

- Google Data Analytics Professional Certificate- Coursera
- Microsoft Azure AI Fundamentals - Microsoft
- Postman API Fundamentals Student Expert- Canvas Badges
- Google Agile Project Management- Coursera
- Codio's Intro to Operating Systems 2- Memory Management-Coursera
- Data Visualization with Power BI- Great Learning
- OOPs in Java-Great Learning
- Business Analysis and Process Management- Coursera

### SKILLS



### ACTIVITIES AND AWARDS

- Placement Cell Volunteer, Mental Health Representative at Symbiosis Institute of Technology
- Active member of BrushesToPixels Art Club and MOSAIC Drama Society
- Multiple top positions in debate and extempore; Awarded with CBSE top 0.1% certificate in Maths and Science
- Olympiad medalist in Mathematics, Science and Computers