

# ARYA RESHAMDALAL

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## OBJECTIVE

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Undergraduate Student with keen interest in problem solving and algorithmic thinking.

## EDUCATION

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Bachelor of Computer Science, BMSCE (CGPA-8.3)	2022-2026
Class 12, Delhi Public School Bangalore South (90%)	2020-2022

## SKILLS

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Languages	Java, C(basics), Python(basics), HTML, CSS, JavaScript(basics), NodeJS, Express, NextJS
Databases	MongoDB, MySQL
Course-work	Unix, DBMS, Computer Networks, Operating Systems, DSA

## PROJECTS

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**Share Your Story** Full-stack development-MongoDB, NodeJS, Express, CSS, JS, HTML [Project](#)

- Implemented domain-restricted **Google OAuth** with role-based access control to streamline user authentication and admin privileges. Optimized system load by reducing **CPU usage**
- Improving request **handling speed** by integrating real-time subforum chat using **Socket.IO**, enhancing peer-to-peer interaction within the platform.

**Chest X-ray Analysis for Pneumonia Detection** Deep Learning and CNN, Flask [Project](#)

- Using the lightweight **MobileNetV2** model, CPU usage was reduced, making the system much faster and more efficient than heavier models.
- Using **MobileNetV2**, the system can handle **2 times more requests per second**, making it **faster** than older, heavier models.

**Automated Email Reminder System for Library Management** Unix Operating System, SMTP API [Project](#)

- Improved app performance by using a single **yad form** instead of multiple **zenity** popups, making it faster and using **less CPU**.
- Enhanced user experience by reducing popups and streamlining input forms with yad, resulting in **faster interactions** during login and book borrowing.

**FitNourish** flutterflow [Project](#)

- Using the **Gemini API** for calorie detection moves the heavy processing to the cloud, significantly reducing the app's **CPU usage**.
- Integrating the Gemini API and optimizing API calls **boosts request handling speed**, Gemini help with fast performance.

**Trade Simulator** Python [part1](#) [part2](#)

- Using Websocket to fetch realtime crypto data from OKX exchange
- Using daemon threads and async.io to improve performance of system

## EXTRA-CURRICULAR ACTIVITIES

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- Completed graduation in classical dance form - **Kathak**.
- Completed Junior diploma in **Hindustani Classical Music**.
- Participated in volunteering activities with college clubs like **CODE-IO** and **IEEE**
- Completed 21 days of teaching experience at a government school with an organization called **ITEACH**

## LEADERSHIP SKILLS

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- Junior core member at **CODE-IO club** of BMSCE (Head for Marketing on social media through posters and video making)
- Part of organizing committee for BMSCE fest 'Utsav'