

KOMAL SINHA

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TECHNICAL SKILLS

Languages: C/C++, Python, Java, HTML/CSS, JavaScript.

Developer Tools/Technologies: VS Code, Amazon AWS, Git and Github, Postman, Linux.

Frameworks: NodeJS, ReactJS.

Databases: SQL, MYSQL, PostgreSQL.

CS Fundamentals: Data Structure and Algorithms(DSA), System Design, Computer Networks, OOPs, Cloud Computing, OS, Software Engineering(Agile methodology), DBMS.

EXPERIENCE

Amdocs (inunity)

Jan 2023 – Jun 2023

Innovation Project Intern (Socio-Make-A-Thon)

Pune, Maharashtra

- Spearheaded the development of a internal tool for tracking **temperature and humidity** in the **Onion Storage System**, enabled real-time data monitoring and editing, resulting in a **25%** reduction in onion spoilage during storage.
- Authoring multiple Arduino-based programs for team use, interfacing with the **BLYNK cloud**. Conducted data computations based on specific requirements, utilizing **DHT11 sensors** and **ESP8266** modules for data sensing.
- Tech Stacks: **C++**, **Figma**, **Arduino**, **BLYNK cloud**.

Chegg Inc

Sept 2022 – Feb 2023

Subject Matter Expert

Pune, Maharashtra

- Authored **25+ core Computer Science solutions**, spanning relational DBMS, Computer Network security, and multiple C++/Python coding.
- Solution based assistance over **100+ students** with Computer Science solutions, facilitating their understanding.
- Tech Stack: **C++**, **SQL**, **ReactJS**

PROJECTS

Parkinson Disease Detection / Python, Scikit-learn, TensorFlow, Matplotlib / Source Code

Jun 2024

- Collaboratively initiated a ML model to detect **Parkinson's disease** from patient data with a **accuracy of 0.91**.
- Enhanced diagnostic efficiency by reducing processing time by **89%** through data pre-processing and feature selection.
- Led clinical validations of predictive models, achieving **98%** accuracy across datasets.

Sorting Visualizer / HTML, CSS, Javascript, Sorting Algorithms / Source Code

Dec 2023

- Developed an interactive web app to **visualize** sorting algorithm, supporting hands-on learning for **60+ students**.
- Implemented Bubble, Merge, Quick and Insertion Sort algorithms, enabling users to experiment with **4** different datasets.
- Improved user experience by adding features to **adjust visualization speed by up to 50%** and **customize dataset**.

Library Management System/ Java, Hashing, OOPs / Source Code

Jul 2023

- Designed a file-structured management system to handle library reservations, reducing manual tracking time by **40%**.
- constructed a Menu Driven Interface using Java, managing and storing **500+ reservation records** on the local disk.
- Offers a Enhanced system usability and data integrity, resulting in a **30% improvement** in overall reservation speed.

EDUCATION

Dy Patil School Of Engineering And Technology

November 2021 - June 2025

B.Tech - Computer engineering - CGPA: 8.92 (till sem-6)

Pune, Maharashtra

Secondary Delhi Public School

April 2019 - May 2021

AISSCE - PCM - Percentage: 78.6

Gaya, Bihar

CERTIFICATIONS

Postman API Fundamentals: API testing, Scripting, REST API.

Certified Android Developer (Google): Kotlin, Firebase, Android SDK, Android Studio.

Machine Learner (Spartificial): Python, Scikit-learn, TensorFlow, Matplotlib.

AWS Certified Solution Associate (Udemy): EC2, Amazon S3, Databases, VPC.

NC-RISES (2024): Research methodology, Team collaboration, Presentation.

POSITION OF RESPONSIBILITIES

- **Coders Club wing of coding:** Organized and managed club activities, including coding workshops and event report as a **coordinator**.
- **Antarang:** Planned the Spot Photography event as a **coordinator** for the annual college fest **Antarang** and led a team of volunteers to successfully execute the event.
- **IT Colloquium Project Expo:** Lead as a design **coordinator** of college event.