

# Kamakshi Aggarwal

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## SKILLS

- **Languages:** C++, JavaScript, PHP, Python, Java
- **Frameworks:** NodeJS, ReactJS, Tailwindcss
- **Tools/Platforms:** Docker, AWS, MySQL, MongoDB, Git, GitHub, Postgres, Vercel
- **Core CS Topics:** Data Structures, Operating Systems (OS), Networking, Database (DBMS)
- **Soft Skills:** Team Player, Adaptability, Problem-Solving, Leadership

## PROJECTS

### SADHN – Skill And Development Hub Network | GitHub | Live

Oct'2025 – Dec'2025

- Architected and deployed a microservices-based skill India initiative for skill enhancement and recruiting application with role-based access, JWT authentication and real-time WebSocket notifications.
- Implemented algorithmic job matching and recommendation engine, automated cleanup schedulers, filtering with pagination, debouncing, lazy loading, and query optimization using database aggregations pipelines.
- Designed a multi-tier distributed system with state management using Redux, service layer abstraction modules, container-orchestration with reverse-proxy as a unified entry point with error handling and automated testing.
- **Tech stack:** React.js, Node.js, Express.js, MongoDB, Docker, Nginx

### Interview Prep AI Platform | GitHub | Live

Oct'2025 – Nov'2025

- Designed this platform to provide personalized, role-specific interview preparation using AI-generated questions tailored to experience level and chosen focus areas.
- Built the entire review workflow including pinning, personal notes, difficulty tagging, expandable answers, and AI-driven concept explanations to create a structured, user-friendly practice flow.
- Delivered a complete session management system where each session is auto-organized, analytics-ready, and enriched with dynamic AI-generated question sets for a deeper learning outcome.
- **Tech stack:** HTML, Tailwind CSS, ReactJS, NodeJS, MongoDB, Express, Grok AI API

## SUMMER TRAINING

### ByteXL- DSA Module | Certificate

Jun'2025 – Jul'2025

- **Completed summer training (DSA Module) by ByteXL and LPU** to strengthen understanding of core and fundamentals of Data Structures & Algorithms.
- Worked on hands-on **real-world project**, implementing **advanced data structures**, **optimizing algorithms**, and applying structured problem-solving techniques.
- Achieved an **A+ grade** and developed strong proficiency in **algorithm design**, **efficient coding practices**, and building **practical applications** and **build responsive web application**.
- **Tech stack:** Data Structures & Algorithms, HTML, CSS, JavaScript

## CERTIFICATES

- Privacy and Security in Online Social Media by NPTEL | [Link](#) Apr'2025
- Introduction to programming in C by NPTEL | [Link](#) Mar'2024
- DSA with C by CSEPathshala | [Link](#) Mar'2024

## ACHIEVEMENTS

- Awarded for outstanding academic performance and NPTEL course excellence; ranked among top 25 students. Dec'2025
- Solved 300+ coding problems across **LeetCode**, **GFG** & **HackerRank**. Dec'2025
- Received a Silver Medal in the NPTEL course "Privacy and Security in Online Social Media". Apr'2025

## EDUCATION

- **Lovely Professional University** Punjab, India  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 9.10* Since August 2023
- **Delhi Public School, Vasant Kunj** New Delhi  
*Intermediate; Percentage: 91.8%* April 2021 - March 2022
- **Delhi Public School, Vasant Kunj** New Delhi  
*Matriculation; Percentage: 95.8%* April 2019 - March 2020