



AASTHA SINGHAL

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Education

Indira Gandhi Delhi Technical University for Women

Aug. 2021 – June 2025

Bachelor of Technology in Computer Science | 8.53/10

Delhi, India

Delhi Public School, Vasantkunj

2018 – 2020

*Class -11th-12th PCM | **Percentage: 95.2***

Delhi, India

Work Experience

Microsoft | *SWE Intern*

May 2024 - July 2024

- Developed a comprehensive automated stress testing framework for early detection of vitals like crashes, ANRs, frozen frames of an application.
- Engineered the robust testing framework using the Android Monkey Tool, enabling simulation of 10,000+ random user interactions; achieved a 40% increase in the identification of new vitals resulting in reduction of post-release bugs.
- Framework has been adopted in the main test framework of application and will also be adopted by other Microsoft Applications.

Projects

GoPlay | *NodeJs, MongoDB, Express, ReactJs*

April 2024 - In Process

- Creating a fully functional full-stack mobile application with user-friendly features that generates hassle-free booking of local grounds for events, connecting user to neighborhood sports community.

KeyRush | *NodeJs, MongoDB, socket.io, ReactJs*

July 2023

- Engineered a comprehensive typing game with both competitive single and multi-player modes with a very user-friendly and captivating UI.
- Created a hackathon project within 48 hours with a team of 3 people.
- Built a full-stack product using NodeJs, MongoDB, socket.io library for the backend, ReactJs for the frontend.

ByYourSide | *Firebase, HTML, CSS, JavaScript*

Feb 2023

- Constructed a highly interactive web application utilizing Firebase as a backend infrastructure, seamlessly blending HTML, CSS, and JavaScript; achieved an impressive user satisfaction.
- Spearheaded the design and implementation of an automated QR code generator for tribute pages, allowing users to share personalized memorials.

Skills

Strong Areas: Data Structures, Algorithms | LeetCode Profile

Programming Languages: C++, Java, Kotlin, HTML, CSS, Javascript, Python

Programs/Frameworks: Android Monkey Tool, Test Framework, Unit Testing, Scenario Testing, Azure DevOps, Git, Bootstrap, ReactJs, Firebase, SQL, NodeJs

Soft Skills: Verbal and Written Communication, Leadership, Teamwork, Public Speaking

Achievements

- **2nd Runner-up** at Smart Hackathon, 2023. A pan-India hackathon with 100+ teams.
- **Gold Medal** for National Cyber Olympiad 2019

Positions of Responsibility

- **Tarannum-Music Society:** Core Member of the Society
- **Innerv - TechFest of IGDTUW:** Associate in Web Development team, handled a team of 4 people
- **Protege Mentor:** Guided juniors in data structures, algorithms, and other technical areas as a Protege Mentor.
- **Microsoft Student Chapter IGDTUW:** Member of Web Development Team