

# ARWAZ KHAN

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## EDUCATION

### M.Tech in Computer Science and Engineering

National Institute of Technology Delhi

August 2024 - July 2026

**CGPA: 9.02/10.0**

### B.Tech in Computer Science and Engineering

Government Engineering College, Bilaspur (C.G.)

July 2019 - June 2023

**CGPA: 9.14/10.0**

## PROJECTS

### Unified-Query-Interface (*Tech Stack: SQL, NoSQL, API Development, Python, JavaScript*) - [GitHub](#)

- Built a middleware that translates high-level queries into database-specific commands, enabling seamless querying across multiple heterogeneous databases. Optimized query execution, improving data management efficiency by 40% and ensuring a consistent user experience across different database systems.

### DataShield : Data Anonymization Platform (*Python, Flask, Numpy, GA, GPU Acceleration*) - [GitHub](#)

- Built a web tool using (k, m, t)-anonymity for privacy-preserving data publishing. Used Genetic Algorithm and GPU to anonymize 500k records in <13s. Enabled CSV upload, privacy config, and t-closeness with KL-divergence.

### DeskPet-AI : Autonomous Desk Robot (*Arduino, NodeMCU, ESP32-CAM, OLED, Python, C, Edge Impulse*) - [GitHub](#)

- Designed an AI-powered robot for object detection and pickup. Integrated Wi-Fi control, OLED expressions, sound, touch-responsive behavior, and edge detection.

### HealthIQ - Web App (*HTML, CSS, JavaScript, NodeJs, Firebase, IoT*) - [GitHub](#) [Website](#)

- Built an IoT & ML-based system for detecting food spoilage and generating personalized health recommendations. Improved food safety accuracy by 85% through predictive analysis.

### EdRoom - Smart Education Companion App (*Tech Stack: Kotlin, XML, Firebase*) - [GitHub](#) [Website](#)

- Developed a digital classroom solution used by 80+ students, integrating real-time attendance, doubt resolution, and study material sharing. Reduced paperwork by 100%, and improved class engagement by 50% via instant notifications and synchronized data flow using Firebase Realtime Database.

### AnandKaraj - Punjabi Matrimonial Platform (*Tech Stack: HTML, JavaScript, Appscript, google-sheets*) - [GitHub](#) [Website](#)

- Designed a community-focused matrimonial platform for Punjabi families with biodata forms, photo uploads, and Google Sheets integration for simple and respectful matchmaking.

## EXPERIENCE

### SAP India - Student Intern (Aug 2025 - June 2026)

- Built an **AI-based Code Remediation Tool** for **CRM → SAP S/4HANA ABAP migration**, triggered via a **custom VS Code extension**, achieving **94% efficiency gain** and reducing remediation time from **~30 minutes to ~3 minutes** per program, depending on code complexity.
- Worked on **document data migration and process automation**, validating data mappings and supporting **SAP enterprise workflows** while documenting end-to-end business processes.

### ABGEC - Web Developer Intern (Sept 2022 - Dec 2022) - [GitHub](#) <https://abgec.in>

- Designed and built a centralized alumni networking portal, now hosting 200+ registered alumni.
- Led a 10-member development team, collaborated with core stakeholders, improved website load speed by 30% through lazy loading, and optimized both frontend and backend performance.

## TECHNICAL SKILLS

Languages: C, C++, Python, Kotlin, JavaScript

Android Development: Kotlin, XML, MVVM, Jetpack, SQLite, Firebase

Web Development: HTML, CSS, JavaScript, Bootstrap, Node.js, Express.js, Flask, jQuery, Appscript

AI/ML & Data Science: Scikit-learn, NumPy, Pandas, OpenCV, Edge Impulse, NLP

Databases: MySQL, Firebase, MongoDB

Tools: Git/GitHub, Postman, Figma, Android Studio, VS Code

Others: Data Structures & Algorithms, IoT, XML/JSON, REST APIs

**Soft Skills:** Time management, teamwork, problem-solving, leadership, analytical thinking, adaptability, and communication.

## ADDITIONAL INFORMATION

- Published a research paper titled "**An Android-Based Food and Residential Service Providing System**" in the International Journal of Innovative Research in Computer and Communication Engineering (2022). [Certificate](#)
- **Certificates:** Full Stack Development (EICT IIT Kanpur), Android Development (Jetpack Compose), [More Certificates](#)
- **Responsibilities:** TnP CSIT Sector Head and Coordinator @ NIT Delhi (2025), Technical Lead @ GDSC GECB (2021-22)
- **Achievements:** GATE qualified (2023, 2024), 5-Star Badge on HackerRank, 3-Star on CodeChef.