



# MOHAMMED ARSH KHAN

Hyderabad, Telangana

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## PROFILE

Core-focused **Java Developer** skilled in **Core Java, OOP, Collections Framework, JDBC, SQL, and JavaFX**. Experienced in building high-performance Java applications, secure backend modules, and optimized database-driven systems. Strong command of exception handling, multithreading basics, MVC architecture, and clean code principles. Hands-on with AWS-based automation and real-time data pipelines. Actively targeting roles in **Java Development, Backend Engineering, and Software Engineering**.

## EDUCATION

<b>CMR Engineering College</b> <i>B.Tech in Information Technology — CGPA: 9.01</i>	<b>2022 – 2026</b> <i>Hyderabad, Telangana</i>
<b>Sri Chaitanya Junior Kalasala</b> <i>Intermediate (MPC) — 92.9%</i>	<b>2020 – 2022</b> <i>Hyderabad, Telangana</i>

## TECHNICAL SKILLS

- **Core Java:** OOP, Collections, Exception Handling, File I/O, Multithreading Basics
- **Backend:** JDBC, JavaFX MVC, SQL Optimization, REST Concepts
- **Databases:** MySQL, Stored Procedures, Triggers, Views
- **Tools:** Git, AWS (Lambda, DynamoDB, CloudWatch), Power BI
- **Practices:** Clean Code, Debugging, Agile, CI/CD
- **Platforms:** Windows, Linux
- **Coding Profiles:** GitHub (Active)

## PROJECTS

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| <b>Smart Campus Resource Management System</b>   JavaFX, JDBC, MySQL   GitHub                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>2025</b> |
| <ul style="list-style-type: none"><li>– Developed a full-stack JavaFX system for managing 200+ campus resources with secure role-based access.</li><li>– Implemented optimized MySQL queries using indexing and batch updates (35% latency reduction).</li><li>– Improved UI responsiveness using JavaFX data binding (25% task efficiency boost).</li><li>– Added input validation and error-handling layers reducing runtime crashes by 40%.</li><li>– Implemented DAO (Data Access Object) pattern improving modularity and testability.</li><li>– Integrated resource conflict detection logic that reduced booking overlaps by 60%.</li></ul> |             |
| <b>SQL Data Insights and Automation System</b>   MySQL, SQL Automation   GitHub                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>2025</b> |
| <ul style="list-style-type: none"><li>– Automated 90% of manual reporting using triggers, stored procedures, and scheduled SQL views.</li><li>– Enhanced query throughput achieving 2× performance improvements on 10k+ records.</li><li>– Built audit logs for transaction history enabling complete traceability across datasets.</li><li>– Created normalization-driven schema improvements reducing redundancy by 30%.</li><li>– Designed error-safe triggers preventing inconsistent writes during peak loads.</li><li>– Developed dynamic reporting views enabling cross-department analytics usage.</li></ul>                               |             |
| <b>SkillHub Web Application</b>   HTML, CSS, JavaScript   GitHub                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>2025</b> |
| <ul style="list-style-type: none"><li>– Built a responsive single-page portal simulating smart campus services with 100+ active test users.</li><li>– Implemented CRUD-style interactions via localStorage with 50% reduced load time.</li><li>– Added modular reusable UI components improving frontend maintainability by 40%.</li><li>– Integrated form validation logic reducing user input errors by 70%.</li><li>– Optimized CSS layout and animations improving overall UX fluidity.</li></ul>                                                                                                                                              |             |

- Designed a mobile-first interface achieving consistent performance across devices.

## **AWS Lambda Log Processing Pipeline** | AWS Lambda, DynamoDB, SNS | GitHub

**2024**

- Designed a serverless log processing pipeline handling 10k+ logs/day using event-driven compute.
- Integrated CloudWatch and SNS alerts reducing manual monitoring effort by 40%.
- Added DynamoDB TTL-based cleanup reducing storage use by 25%.
- Improved Lambda cold-start performance through memory and timeout tuning.
- Configured IAM policies ensuring secure, least-privilege access across services.
- Implemented structured JSON logging improving debugging and observability.

## **CERTIFICATIONS**

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- Digital Skills Readiness Program — Wipro (2025)
- AWS Cloud Virtual Internship — Cloud Computing (2024)
- AWS Solutions Architecture Simulation — Forage (2024)
- Data Analytics Simulation — Forage (2024)
- Data Visualization: Empowering Insights — Forage (2024)
- IBM SkillsBuild: Working in a Digital World (2023)
- TCS ION Career Edge – Young Professional (2023)

## **EXTRACURRICULAR**

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- Top 5% in **Flipkart GRID 6.0 (2024)** Software Development Track.
- Advanced to Level 1.1 in **Flipkart GRID 5.0 (2023)**, outperforming 30k+ participants.
- Represented college in **TATA Crucible Campus Quiz 2024**.
- Contributed to open-source education via **IIT Bombay Spoken Tutorial Project**.

## **LANGUAGES**

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- English (Fluent), Hindi (Fluent), Telugu (Intermediate)