

# Akshaya M

Aanaiyur, Madurai

📞 +91 93608 64338

✉ akshayamanian07@gmail.com

LinkedIn [linkedin.com/in/akshaya-manian07](https://linkedin.com/in/akshaya-manian07)

## Professional Summary

Motivated MCA graduate with a strong foundation in **Java, full-stack web development, and secure system design**. Hands-on experience in building scalable web applications, implementing authentication, encryption, and database-driven solutions. Proven ability to collaborate in team environments, lead quality initiatives, and deliver reliable software solutions. Seeking entry-level opportunities in **Software Development, Backend Engineering, or Full-Stack Development**.

## Education

### Master of Computer Applications (MCA)

2024 – 2026

PSG College of Technology, Coimbatore

CGPA: 7.38 (Up to 2<sup>nd</sup> Semester)

### Bachelor of Science in Computer Science

2021 – 2024

Fatima College, Madurai

CGPA: 6.9

### Higher Secondary Education

2020 – 2021

CEOA Matriculation School, Madurai

Score: 71%

### SSLC

2018 – 2019

CEOA Matriculation School, Madurai

Score: 68%

## Projects

### Quantum Secure Chat Application

*Python, Flask, HTML, CSS, JavaScript*

- Developed a secure chat platform implementing post-quantum cryptographic algorithms (Kyber and Dilithium).
- Designed RESTful backend APIs using Flask for encrypted message transmission.
- Integrated a responsive frontend chat interface with secure communication workflows.
- Implemented end-to-end encryption and session-based key management.

### Indian Constitution Learning Platform

*Node.js, Express.js, MongoDB, HTML, CSS, JavaScript*

- Built an educational web platform with structured learning modules and interactive quizzes.
- Implemented role-based authentication and authorization for users and administrators.
- Designed MongoDB schemas for user progress tracking and content management.
- Enhanced learning engagement through real-time progress monitoring.

### Music Streaming Web Application

*HTML, CSS, JavaScript*

- Developed a responsive music streaming website with playlist creation and playback controls.
- Optimized UI for cross-browser and cross-device compatibility.
- Ensured smooth audio playback and clean frontend design.

## Technical Skills

**Programming Languages:** Java, JavaScript, Python, SQL

**Web & Backend:** Node.js, Express.js, Flask, HTML, CSS

**Databases:** MySQL, MongoDB

**Tools:** Git, GitHub, Firebase

**Core Concepts:** Data Structures, Operating Systems, Software Engineering, Web Security

## Achievements & Leadership

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- **Head of Quality Assurance:** Led a 10-member QA team for a national-level technical event, ensuring quality standards and successful execution.
- **Discipline Committee Member:** Coordinated large-scale college events and managed technical logistics.

## Languages

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English, Tamil