

# Asha A

*Full Stack Developer*

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## PROFILE SUMMARY

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MSc Computer Science graduate and certified Full Stack Developer skilled in Java, Spring Boot, Hibernate, React, and SQL. Experienced in developing full-stack web applications by integrating responsive frontends with scalable Spring Boot backends. Adept at building REST APIs and database-driven applications.

## EXPERIENCE

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### Java Full Stack Development Trainee – JSpiders

Nov 2024 – Aug 2025

- Gained hands-on experience in Core Java, J2EE, SQL, Web Technologies (HTML, CSS, JavaScript), and frameworks including Spring Boot and Hibernate.
- Built and deployed sample applications using React for frontend and Spring Boot for backend.
- Worked on mini-projects simulating real-world scenarios, strengthening problem-solving and coding efficiency.
- Improved understanding of full stack workflows, from database design to frontend integration.

## TECHNICAL SKILLS

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### Frontend Development

- **React:** Skilled in building interactive UIs with JSX and functional components. Experienced with state management using `useState`, `useEffect`, and `props`.
- **HTML:** Proficient in semantic HTML, forms, tables, and web page structuring.
- **CSS:** Knowledge of styling, Flexbox, Grid, animations, and responsive design.
- **JavaScript:** Proficient in variables, functions, loops, and event handling. Familiar with DOM manipulation and ES6+ features (`let/const`, arrow functions, template literals).

### Backend Development

- **Java:**
  - Strong in Core Java with solid understanding of OOP principles.
  - Proficient in building backend applications using **Spring Boot**.
  - Experienced in developing **RESTful APIs** for client-server communication.
  - Hands-on experience with **Hibernate ORM** for database integration and CRUD operations.
  - Good knowledge of Java Collections, Exception Handling, and I/O.

### Database

- **SQL/MySQL:**
  - Strong understanding of RDBMS concepts and normalization.
  - Skilled in writing efficient queries using `JOINS`, subqueries, and aggregate functions.
  - Experienced in performing data manipulation and managing transactions efficiently.
  - Proficient in creating and managing tables, indexes, and stored procedures.

## PROJECTS

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- **Employee Management System (Full Stack)**

Developed a full-stack web application for employee management with features such as adding, updating, and deleting employee records. Frontend was built using React.js, backend services with Spring Boot REST APIs, and MySQL for data storage. Tested APIs using Postman to ensure reliability and correctness.

**Tech:** React.js, Spring Boot, MySQL, Postman (2025)

- **To-Do List Web App**

Built a responsive task management application with add, delete, and mark-complete features. Implemented state management using React hooks.

**Tech:** React.js, HTML, CSS, JavaScript (2025)

- **Efficient Compression of MRI Images Using Deep Learning Techniques**

Developed a two-stage approach using Attention U-Net for MRI segmentation and Autoencoder for compression. Focused on compressing non-ROI areas while preserving diagnostic quality. Achieved PSNR of 34 with reduced storage requirements.

**Tech:** Python, TensorFlow, Attention U-Net, Autoencoder (2024)

## EDUCATION

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- **Mahatma Gandhi University (School of Computer Sciences)**

2022–2024

MSc Computer Science — 78%

- **University of Calicut (College of Applied Sciences, IHRD)**

2019–2022

BSc Computer Science — 80%

## CERTIFICATIONS

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- **Java Full Stack Development (JSpiders)** — Core Java, J2EE, SQL, Web Technologies, Spring, Hibernate, React.Js (2025)

- **Advanced Deep Learning** — Transfer Learning, Autoencoders, LSTM, GANs (2024)