

# Irshad Alam

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## Summary :-----

Driven and versatile software engineer with a strong passion for exploring emerging technologies and applying innovative solutions. Eager to leverage my expertise in full-stack development, problem-solving, and software design to contribute to cutting-edge projects and drive impactful software advancements in a dynamic and collaborative environment.

## Skills :-----

### Full Stack Development:

- **Front-End:**  
HTML, CSS, JavaScript, Bootstrap, React.js
- **Back-End:**  
Java, Java EE, Spring Boot, Spring MVC, JPA
- **Database:**  
SQL, PLSQL, MySQL, Oracle DB, JDBC
- **Development Tools & IDEs:**  
VS Code, IntelliJ, Maven, Git/GitHub, Eclipse IDE, Jupyter Notebook

### Additional Skills:

- Python
- WordPress
- Core Java & Object-Oriented Programming
- Data Structures & Collection Framework
- Hibernate, servlet, JSP, JSX
- API integration
- Problem Solving & Logic Building
- Communication

## Work Experience :-----

### The Website Makers, Online

#### Web Development Intern

Sep 2023 – Dec 2023

- Developed and deployed a responsive and visually appealing webpage for a gaming website using **HTML**, **CSS**, **JavaScript**, and **Bootstrap**.
- Ensured cross-browser compatibility and **mobile responsiveness** for seamless access on multiple devices.
- Deployed the webpage using a free hosting platform, **000webhost**.
- Integrated **dynamic animations** and **interactive features** to enhance the website's engagement.

## Research Experience :-----

### Online Auction System

April 2024

Co-Author, Department of Computer Science and Engineering, Bharath Institute of Higher Education and Research, Chennai

- **Publication:** "SPAROO: A Scalable and Real-Time Online Auction System," published in *International Journal of Research and Analytical Reviews (IJRAR)*, Vol. 11, Issue 2, April 2024. [IJRAR Paper ID: IJAR\_285880]
- **Research Focus:** Developed a web-based auction platform that supports multiple simultaneous users and real-time bidding. The system aimed to optimize scalability and efficiency in online auction processes.
- **Technical Contributions:** Utilized UML modelling techniques (class, sequence, activity diagrams) to design and develop the architecture. Built the front-end using React.js and developed the backend with Django, ensuring seamless integration and improved code reusability.
- **Impact:** Enhanced the scalability of online auctions, enabling efficient and secure real-time transactions.

## Education :-----

### University Of Alabama at Birmingham, AL, USA

Aug 2025 – Jun 2027

#### Masters in Computer Science

**Relevant Coursework:** Machine Learning, Foundation of Data Science, Network Security, Deep Learning, Data Mining

### Bharath Institute of Higher Education and Research (BIHER), Chennai

Aug 2020 – Jun 2024

#### B.TECH. in Computer Science and Engineering

CGPA: 8.88/10

**Relevant Coursework:** Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Artificial Intelligence, Machine Learning, Data Mining, Internet Mobile Programming, Compiler Design, Data Visualization Technique (DVT), Block-chain.

Projects :-----

Virtual Assistant

Role: Leader - Resource Collection, Presenter

Technologies Used: Python

- Led a team to develop a **Python-based virtual assistant** capable of performing tasks such as **web scraping**, **information retrieval**, and basic **automation** tasks.
- Integrated various APIs for real-time **weather updates**, news, and task management.
- Ensured a user-friendly experience with **voice command functionality**.

Online Auction System

Role: Leader - Resource Collection, Presenter

Technologies Used: React.js, MongoDB

- Built a real-time **online auction system** allowing users to **bid on items** dynamically, using **React.js** for the front end and **MongoDB** for the database.
- Implemented **real-time data handling** using **Web-Sockets** for live bidding events.
- Developed a **user authentication system** for secure transactions.

E-Commerce Website

Technologies Used: HTML, CSS, JavaScript, Bootstrap

- Designed and implemented a fully responsive **e-commerce website** for browsing products, adding items to the cart, and completing purchases.
- Integrated dynamic content display and **shopping cart functionality** with **JavaScript**.
- Optimized the website for **fast load times** and **user-friendly navigation** across devices.

Web-based Custom AI Image Generator

Technologies Used: OpenAI API, JavaScript, HTML, CSS, ReactJS

- Developed a web application that allows users to generate custom AI-generated images by entering a prompt and selecting the number of images they want.
- Integrated the OpenAI API to generate images based on user input, ensuring high-quality and relevant outputs.
- Enabled users to download generated images via a simple, user-friendly interface with download buttons.

Theatre Management System

Technologies: JAVA, Spring Boot, Hibernate, MySQL, REST APIs, Postman

- Developed a comprehensive system to manage multiple entities using Spring Boot and Hibernate.
- Implemented **One-to-One** and **One-to-Many** relationships to handle data between entities.
- Designed and tested RESTful APIs with Postman for seamless CRUD operations and database management.
- Utilized **Spring Data JPA** and Secured APIs for efficient database access and ensured data consistency with MySQL.

Training & Certification :-----

JSpiders, Hyderabad

Mar 2024 – Sep 2024

Java Full Stack Development

- Acquired hands-on experience in **full-stack technologies**, focusing on **Java**, **Spring Boot**, **Hibernate**, front-end **development** (HTML, CSS, JavaScript), and **database management**.
- Developed proficiency in using **MVC architecture**, **RESTful APIs**, and **Agile methodologies**.

Personal Details :-----

Address : Birmingham, Alabama, USA

Nationality : Indian

Languages Known: English, Hindi, Urdu, Telugu

Hobbies: Mobile Games, Surfing the Web, Cricket