

# Vijay Kumar

Software Engineer | Java & Backend Systems



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Vijaykumardev.vercel.app

## About Me

Software Engineer with a strong background in developing backend applications using **Java, Spring Boot, and WebSockets**. Focused on building scalable systems, implementing efficient algorithms, and contributing to **Open Source** projects. Experienced in **Linux/Ubuntu** environments and committed to writing clean, maintainable code for remote-first teams.

## Technical Skills

- **Languages:** Java, JavaScript, HTML.
- **Backend & Frameworks:** Spring Boot, Java WebSockets, JPA, Maven.
- **Architecture:** Low-Level Design (LLD), High-Level Design (HLD), Concurrency, Object-Oriented Programming (OOP).
- **Tools:** Git, GitHub, Linux (Ubuntu).
- **Fundamentals:** Data Structures & Algorithms (DSA), Operating Systems, Computer Networks.

## Technical Projects

### Data Structures & Algorithms (Java)

- Implemented core data structures including Linked Lists, Trees, and Graphs using **Java** to solve complex computational problems.
- Analyzed and optimized time and space complexity for various sorting and searching algorithms.
- Documented clear logic and test cases for each implementation to ensure code reliability.
- **Github:** [github.com/VijayKumarCode/DSA\\_java](https://github.com/VijayKumarCode/DSA_java)

### Multiplayer TicTacToe Engine

- Built a network-based multiplayer game using **Java WebSockets** and **Java Sockets**.
- Managed multiple concurrent user sessions efficiently by applying **multithreading and parallelism**.
- Designed the backend logic to handle real-time state synchronization across different clients.
- **Github:** [github.com/VijayKumarCode/TicTacToe\\_java](https://github.com/VijayKumarCode/TicTacToe_java)

### Professional Portfolio Website

- Developed a responsive web platform to showcase technical projects and engineering expertise.  
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- Utilized **HTML, CSS, and JavaScript** to create a clean, performance-optimized user interface.
- Ensured cross-browser compatibility and responsive design for various screen sizes.
- **Github:** [github.com/VijayKumarCode/Portfolio\\_web](https://github.com/VijayKumarCode/Portfolio_web)