

Karthik R

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<https://github.com/Karthikr32> | Portfolio

Profile Summary

Passionate and self-driven **Full Stack Java Developer** with hands-on experience in building user-friendly, scalable and secure web applications. Trained in **Java, Spring Boot, React, MySQL, and RESTful APIs**. Strong foundation in both **frontend and backend development**, with a keen eye for UI/UX design and clean code architecture. Eager to contribute in a collaborative environment with strong communication and problem-solving skills.





Technical Skills

- **Front-end Technologies:** HTML5, CSS3, Bootstrap, JavaScript, jQuery, React
- **Back-end Technology:** Java, Spring, Spring Boot, Spring Security
- **Database:** MySQL
- **Tools and IDEs:** VS Code, Eclipse, IntelliJ IDEA, Postman
- **Version Control:** Git, GitHub
- **Others:** Restful API, Git CLI, JSON

Education

- Bachelor of Computer Applications (BCA)* - 71% 2018 – 2021
Thiruthangal Nadar College, Chennai
- Higher Secondary Certificate (HSC)* - 68% 2016 – 2018
St. Joseph's Hr Sec School, Chennai

Projects

- Shopping Cart Application** | HTML5, CSS3, Bootstrap, JavaScript, jQuery, Java, Spring/Spring Boot, Spring Security, MySQL [Repo link](#) 
- **UI/UX:** Designed a responsive frontend with **smooth login/logout** hover effects and dynamic cart management. **Real-time validations** and feedback improved user experience and engagement.
 - **Project Architecture:** Built a modular Spring Boot app using layered architecture (**controller, service, repository, DTO**), promoting scalability, maintainability, and clean separation of concerns.
 - **Security Implementation:** Integrated **JWT-based stateless authentication** with Spring Security, enforcing secure access to endpoints while allowing public access to necessary resources. Developed robust user registration with comprehensive **DTO validation**, ensuring data integrity and preventing duplicate usernames or emails.
 - **Dynamic Image Serving:** Served product images securely from the server filesystem with proper **MIME type** detection for optimized media delivery.
 - **Product Data Management:** Built RESTful endpoints for product data upload and retrieval, enabling efficient bulk handling. Ensured **CORS support** for smooth frontend-backend integration.
- YouTube Clone** | HTML5, CSS3, JavaScript, and React [Repo link](#)  | [Demo link](#) 
- **Component-Based Architecture:** Built using a modular design approach by dividing the UI into **reusable React components** such as Navbar, Sidebar and Home. This improves maintainability and scalability.
 - **Dynamic Rendering:** Video content is dynamically rendered using a centralized **media.js** file containing thumbnails, titles, channel names, and video links. using React's **.map()** method to simulate a real-time YouTube feed.
 - **Interactive Video Cards:** Each video card includes a thumbnail, channel icon, title, metadata, and links directly to the corresponding YouTube video.
 - **Tooltip Feedback & UI/UX:** Hovering over action icons like “Search”, “Create”, and “Notifications” reveals tooltips for better usability. The layout is fully responsive and delivers a smooth, intuitive UI/UX across all screen sizes.
- Electricity Billing DBMS** | MySQL [Repo link](#) 
- Demonstrated practical SQL skills by analyzing electricity usage across households using MySQL. Included **stored procedures, triggers, and joins** via MySQL Workbench, along with output screenshots in a detailed presentation.

Certifications

Full Stack Java Developer Program at Besant Technologies, Anna Nagar Chennai
Covered: Frontend, Backend, MySQL, REST APIs