Karthik R

Chennai, India • tkarthik2k@gmail.com • +91 7806970648

www.linkedin.com/in/karthik2k • https://github.com/Karthikr32 • Portfolio

Profile Summary

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

Technical Skills

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

Education

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

Projects

Shopping Cart Application — HTML5, CSS3, Bootstrap, JavaScript, jQuery, Java, Spring, Spring Boot, Spring Security and MySQL [Repo link]

- **UI and UX Design:** Designed a responsive frontend with smooth **login and logout** hover effects and dynamic cart management, incorporating **real-time validations** and feedback to improve user experience and engagement.
- **Project Architecture:** Built a Spring Boot app using layered architecture (**controller, service, repository, DTO**), promoting scalability, maintainability, and clean separation of concerns.
- **Security Implementation:** Implemented **JWT authentication** using Spring Security to secure endpoints and allow public access. Developed registration with **DTO validation** and duplicate checks to ensure data integrity.
- **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 **Cross Origin Resource Sharing 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, leveraging 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 and UI and 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 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:** Front-end, Back-end, MySQL, REST APIs