Swamy M K

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Summary

B.Tech graduate in Electronics and Communication Engineering with skills in Java, Spring Boot, JSP, Servlets, Hibernate, SQL, HTML, CSS, JavaScript (ES6+), and React.js. Completed Java Full Stack Development training with hands-on experience building web applications. Proficient in creating scalable and maintainable applications. Seeking a Full Stack Developer role to contribute and grow professionally.

Education

B.Tech in Electronics and Communication Engineering, *PES University*	**2021-2024**
CGPA: 8.19	*Bengaluru, Karnataka*
Diploma in Electronics and Communication Engineering, *APS Polytechnic College*	**2018-2021**
Percentage: 92.07%	*Bengaluru, Karnataka*
SSLC Karnataka State Board, *Gandhinagar Higher Secondary School*	**2017-2018**
Percentage: 74.24%	*Bengaluru, Karnataka*

Skills

- **Programming Language:** Java (OOP, Exception Handling, Multithreading, Collections).
- **Advanced Java:** JDBC, JEE/J2EE, JSP, Servlets.
- **Framework and Library:** Hibernate, Spring Core, Spring Boot, Spring MVC, Spring ORM, React.js.
- **Frontend Technologies:** HTML, CSS, JavaScript (ES6+).
- **Database:** SQL, MySQL.
- **Tools:** VS Code, Eclipse IDE, MySQL Workbench, GitHub, Postman.

Projects

Online Food Delivery Web Application | *Java, JSP, Servlets, JDBC, MySQL, HTML, CSS*   GitHub Link | Demo
- Developed a full-stack food ordering web application enabling users to browse restaurants, manage carts, and place orders.
- Built the backend using **Java (JSP, Servlets)** and **JDBC** with a **DAO design pattern** to handle database operations in MySQL.
- Implemented cart functionality and order placement workflows with custom logic for user tracking.
- Designed a **responsive frontend** using HTML and CSS, and deployed the application on Apache Tomcat via Eclipse IDE.

YouTube Clone Webpage | *HTML, CSS (Flexbox, Grid, Box Model)*   GitHub Link | Demo
- Developed a static front-end replica of YouTube using only HTML and CSS to mimic the homepage and video player layout.
- Applied modern CSS techniques like Flexbox, Grid, and the Box Model for clean structure and responsive design.
- Focused on delivering a visually accurate, user-friendly interface without incorporating JavaScript or backend logic.

Design and Simulation of Fourth Order Minimum Phase Buck Converter | *MATLAB, Simulink*
- Designed a fourth-order DC-DC buck converter to achieve improved dynamic performance and enhanced power conversion efficiency.
- Eliminated right half-plane (RHP) zeros to ensure a minimum phase system, resulting in better stability and voltage gain.
- Simulated the converter in MATLAB and Simulink to validate design performance and transient response.

Course/Experience

Java Full Stack Development Trainee *@Tap Academy,* Bangalore   **Jan 2025 – June 2025**
- Completed 6-month Java Full Stack Web Development training, covering Frontend technologies such as HTML, CSS, JavaScript (ES6+), and React.js; Backend technologies including Core & Advanced Java (JSP, Servlets, JDBC), Spring Framework (Core, Boot, MVC, ORM), and Hibernate; and Database technologies such as SQL and MySQL.
- Gained practical experience in MVC architecture, object-oriented programming (OOP), database operations, and deploying applications using Apache Tomcat.
- Worked on RESTful APIs using HTTP methods (GET, POST), JSON, and Postman for API testing, with a strong focus on backend integration, CRUD operations, and API development.

Certifications

- **Certified in Java Full Stack Web Development.**   Certificate Link
- **Certified in SQL (Basic) – issued by HackerRank**   Certificate Link
- **Certified in SQL (Intermediate) – issued by HackerRank**   Certificate Link