



Karpagamainthan M

SOFTWARE DEVELOPER

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Professional Summary

I am a software developer with experience in full-stack development, specializing in delivering robust web applications and data-driven solutions. Proficient in Java, C, Node.js, and modern web technologies, I have contributed to end-to-end software development processes, ensuring quality and efficiency. With a strong foundation in problem-solving and logical thinking, I aim to create impactful solutions that drive success.

Work Experience

Software Engineer | July 2023 – Present

PSG Software Technologies

- Designed RESTful APIs using Node.js, enabling efficient communication between the front-end and back-end systems.
- Implemented CRUD operations and optimized NoSQL queries for high-performance MongoDB database interactions.
- Built dynamic and responsive user interfaces using Angular reactive forms and component-based architecture.
- Followed Agile methodologies with daily stand-ups, sprint planning, and regular code reviews.
- Conducted unit and integration testing using Postman to ensure application reliability and performance.
- Integrated secure payment gateways like Paytm and Billdesk, handling transactions and refunds via backend APIs.
- Applied JWT-based authentication and role-based access control to secure payment and user management endpoints.
- Implemented S3 integration as the primary storage for user-uploaded content from application servers.
- Integrated Redis for efficient caching, session management, and reducing backend load during frequent data access.

Software Developer Intern | September 2022 – April 2023

Zoho Corporation

- Assisted in the development and maintenance of web-based applications.
- Gained hands-on experience in coding, debugging, and database management under senior developers' guidance.

Academic History

Sri Shakthi Institute of Engineering and Technology, Coimbatore | 2019–2023

Bachelor of Technology in Information Technology

- Graduated with a 7.9 CGPA.
- Focused on computer systems, software engineering, networking, and database management.
- Gained hands-on experience in full-stack development, Java programming, and web technologies.
- Developed projects related to course and program outcome calculations, web applications, and Java-based systems.

Skills

Software Proficiency

- Programming Languages
Java, C, JavaScript
- Web Technologies
HTML, CSS, JavaScript, Node.js, Servlet, JSP
- Database Management
MySQL, MongoDB, Redis
- Tools & IDEs
Visual Studio Code, Eclipse, IntelliJ, Git, MS Office

Areas of Interest

- Logical Thinking & Problem Solving
- OOPS & Java Programming
- Java Restful Web Services
- Servlet and JSP Web Technology
- Full Stack Development

Key Strengths

- Quick Learner
- Creative Person
- Good Team Worker

Awards and Certification

Certified in Java | 2019

KICE Infosystems

Event Organizer | 2029

"ICAPST 2020" Technical Event at Sri Shakthi
Institute of Engineering and Technology

Project Experience

Office Project (Dummy Project)

XYZ Tech Solutions

- Developed an internal management tool to track office equipment, inventory, and employee data, using Java, MySQL, and JavaScript.
- Integrated login authentication and user role management to ensure data security and access control.
- Provided real-time updates and alerts for inventory management and office supplies.

Course Outcome & Program Outcome Attainment Calculation (2023)

Sri Shakthi Institute of Engineering and Technology

- Developed a website to calculate the attainment of Course Outcomes and Program Outcomes for NBA accreditation purposes, using HTML, CSS, JavaScript, Servlet, JSP, and MySQL databases.
- Involved in requirement gathering, design, and implementation of a user-friendly interface.
- Integrated MySQL database for efficient data storage and retrieval.

Covid-19 Dashboard (2023)

Sri Shakthi Institute of Engineering and Technology

- Created a state-wise COVID-19 dashboard to view the daily status of affected cases and deaths using HTML, CSS, JavaScript, and Node.js.
- Integrated real-time data fetching and display through APIs.
- Implemented dynamic charts to present daily statistics for better user visualization.

E-Bus Pass Renewal System (2023)

Sri Shakthi Institute of Engineering and Technology

- A web application for renewing bus passes, built with HTML, CSS, JavaScript, and Node.js.
- Implemented a real-time system to track pass renewals and payment processing.
- Enabled smooth user experience with an intuitive interface and backend validation.

Employee Management System (2022)

Sri Shakthi Institute of Engineering and Technology

- A console-based Java application for managing employee data, utilizing in-memory collections and database connectivity.
- Developed functionality for adding, deleting, and updating employee records.
- Implemented database connectivity for persistent data storage and retrieval.