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RAJESH NALLA

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Software Engineer

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PROFESSIONAL EXPERIENCE

- 2+ years of experience in **Software engineer** with a strong understanding of the entire **SDLC** (analysis, design, development, implementation, deployment). Experienced in full stack development, agile methodologies, waterfall models, **J2EE**, **Spring Boot**, **HTML5**, **CSS3**, **JavaScript** and distributed systems.
- Experience in working with the data model, writing scripts using Stored Procedures, User Defined Functions and Triggers in **SQL SERVER** and **Oracle database**.
- Experience in building web applications using **C#.NET**, **SQL Server**, **ASP.NET Core**, **ASP.NET MVC**, **Web API**, **ADO.NET**, **Entity Framework**, **HTML**, **CSS**, **JavaScript**, **jQuery**, **AngularJS**, **Angular**, **Bootstrap**, **Visual Studio**.
- Skilled in applying object-oriented programming principles such as inheritance, polymorphism, abstract classes, and in optimizing data structures and algorithms, which reduced runtime complexity by 25% over a 4-week optimization period.

TECHNICAL EXPERIENCE

Careington, Frisco, TX | Software Engineer

Jan 2024 — present

Responsibilities

- Created a full-stack web application using **Angular** components and **Spring Boot**, improving system performance by 40%.
- Implemented **AES** encryption and **JWT**-based authentication, ensuring 99% compliance with security standards while scaling the application to support a 5x increase in transaction volume using **Kubernetes** auto-scaling and load balancing.
- Created user interfaces using **HTML5**, **CSS3**, **Bootstrap**, **JavaScript**, **AJAX** and **Angular**.
- Integrated **AWS Code Pipeline** with **Jenkins** for automated builds, tests, and deployments, reducing release cycles by 60%.
- Integrated **Go**-based microservices with existing **Java services** in a cloud-native environment.
- Updated and Created **database objects** in **Concept Wave** frameworks.
- Proficient in using **SQL Server Management Studio** to develop and maintain **SQL Server databases**, including schema design, table creation, and stored procedure development.
- Scaled **microservices** using **Spring Boot** to process over 2 million daily transactions, achieving a 90% reduction in billing errors through optimized database queries and asynchronous processing with **RabbitMQ**.
- Designed and implemented a real-time fraud detection system using machine learning (ML) algorithms, reducing fraudulent activities by 35% within the first six months of deployment.
- Followed **NoSQL** data modeling best practices in **Cassandra**, such as denormalization, materialized views, and composite keys, to optimize data access patterns and support complex querying requirements.
- Experienced in **React JS** and working with **React Flux** architecture.
- Using **Angular** technologies in conjunction with **.NET Core**, **Rest Web API**.
- Involved in a full life cycle **Object Oriented application** development - **Object Modeling**, **Database Mapping**, **GUI Design**.
- Developed the various features of the application using front end technologies like **Backbone JS** and **React**. Extensive experience with Open Source Frameworks Like **Spring MVC**.
- Developed full-stack applications using **ASP.NET Core**, **Entity Framework Core**, and **React/Angular12** for responsive front-end interfaces.
- Managed version control and collaborated on code using **GitHub**, streamlining team workflows, while architecting and deploying scalable, fault-tolerant applications on **AWS** using **EC2**, **S3**, and **RDS**, reducing merge conflicts and infrastructure costs by 30%.

Unitrans Infotech service, India | Software Engineer

Jan 2021 — Nov 2022

Responsibilities

- Crafted interactive dashboards with **HTML**, **CSS**, **JavaScript**, **Vue.js**, and **React.js** to visualize fraud trends and collaborated with cross-functional **Agile** teams, delivering the project on time and reducing manual fraud investigation efforts by 50%.
- Optimized API performance by implementing batching, caching strategies in **GraphQL**, and **RESTful APIs**, improving data flow efficiency and reducing server load and API response time by 30%.
- Designed **FACADE** design patterns for **APIGEE** using **Java** platform.
- Performed validations on **Web Forms** using **.Net Validation Controls** and **Client-Side Validation** using **Angular 10**.
- Worked with relational databases, writing optimized queries in **PHP** to handle large datasets, improving data retrieval speed by 40% and enhancing overall application performance.
- Experience in writing code using Core **JavaScript**.
- Created a **RESTful Web API** service using **ASP.NET Web API** to generate data for the **EMS** which was then consumed in the front-end by **Angular 6**.
- Performed validations on **Web Forms** using **.Net Validation Controls** and **Client-Side Validation** using **Angular 12**.
- Designed and developed presentation layer using **JSP**, **DHTML**, **AJAX** and **JavaScript**.

- Containerized applications using Docker and integrated **CI/CD pipelines**, achieving a 50% improvement in deployment efficiency and consistency across development, testing, and production environments.

SKILLS

Languages/Methodologies: Python, Java, C, JavaScript, C++, Java, Agile, Waterfall, Scrum

Frameworks/Libraries: Spring Boot, Spring MVC, React, NodeJS, ExpressJS, AngularJS, NextJS, OAuth 2.0.

Web Technologies: HTML5, CSS3, ExpressJS, NodeJS, TailwindCSS, TypeScript, XML, JSON, GraphQL, Micro-services, PHP.

Cloud and Databases: AWS (EC2, SQS, SNS, RDS, Cloud Watch), MySQL, PostgreSQL, Azure, MongoDB.

Tools: Maven, Gradle, Git, GitHub, Jenkins, GraphQL, Postman.

PROJECTS

Parcel Management System | Tech Stack: React, python, MongoDB, NodeJS, GraphQL, Micro Services

- Utilized JavaScript, NodeJS, React.js, MongoDB, and GraphQL to enhance system efficiency and performance. Implemented dual-login functionality for admin and staff, streamlining operations, saving hours of administrative work weekly, reducing parcel processing time by 10 minutes per task, and nearly eliminating unauthorized access incidents.

Mern Chat-app | Tech Stack: NodeJS, Web sockets, TailwindCSS, MySQL, Git, Kafka

- Built a full-stack MERN chat application using React, Tailwind CSS, HTML, and Web Sockets for the front-end, with MySQL and Kafka for backend messaging, enabling real-time chats, online user status, secure file sharing, and encrypted communication.

Payment gateway | Tech Stack: Angular, Typescript, Spring boot, RabbitMQ,

- Engineered a secure payment gateway leveraging Angular and TypeScript for the front-end, Spring Boot for back-end security, and Razorpay API integration, enabling seamless and secure processing of up to 1,000 transactions per minute.

Token-pulse | Tech Stack: React, NodeJS, Redis,

- Implemented a token bucket-based rate limiter with NodeJS, Express JS, and Redis, successfully managing up to 10,000 API requests per second, ensuring system stability and reducing response delays by 30% during peak traffic.

Cine-list | Tech Stack: API, Redux, Axios, Tailwind CSS

- Increased user engagement by implementing dynamic movie search and filter features using React, Redux, and Axios, leveraging the TMDB API, resulting in a 30% improvement in user retention through enhanced interactivity and responsiveness.

EDUCATION

Masters in Computer Science, University of Central Missouri, with 3.60/4.0 GPA

January 2023-May 2024