RAJESH NALLA

+1(913) 762-3980
nrajesh1120@gmail.com

Software engineer

Portfolio:Rajeshnalla.com
linkedin.com/in/naraj247

PROFESSIONAL SUMMARY

- 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, and waterfall models.
- 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

Metlife, MO | 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.
- Integrated **AWS CodePipeline** with **Jenkins** for automated builds, tests, and deployments, reducing release cycles by 60%.
- 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.
- 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%.

Tech Mahindra, 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%.
- Worked with relational databases, writing optimized queries in **PHP** to handle large datasets, improving data retrieval speed by 40% and enhancing overall application performance.
- Containerized applications using Docker and integrated **CI/CD pipelines**, achieving a 50% improvement in deployment efficiency and consistency across development, testing, and production environments.
- Architected and implemented secure, scalable data storage solutions using **Azure** Blob Storage and **Azure SQL Database**, improving data access speed and reliability.

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* : ReactJs, python, MongoDB, NodeJs, GraphQL, MicroServices

- 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.

MernChat-app | *Tech Stack*: NodeJS, Websockets, Tailwindcss, MySQL, Git, Kafka

- Built a full-stack MERN chat application using React, TailwindCSS, HTML, and WebSockets for the front-end, with MySQL and Kafka for back-end 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, ExpressJs, 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, TailwindCSS

- 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

Master's in Computer Science, *University of Central Missouri*, with 3.60/4.0 GPA   January 2023-May 2024