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RAJESH NALLA

Software Engineer

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Technical Experience

Software Engineer **January 2021 — November 2022**
Mphasis *Bengaluru, Karnataka*

- Contributed to the analysis, specification, design, implementation, and testing phases of the **Software Development Life Cycle, utilizing Agile methodology and SCRUM** for developing data delivery applications, which cut project timelines by an average of 10 days per sprint and increased delivery speed.
- Developed web pages using **HTML5, CSS3, JavaScript, React JS, AngularJS,** and Bootstrap, resulting in a 20% improvement in user interaction times within 8 weeks of deployment.
- 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.
- Architected a microservices setup with **Spring Boot and Spring REST,** crafted REST API endpoints, and secured APIs using OAuth2 token-based authentication and authorization through Spring Security, resulting in a 35% improvement in API response times within three weeks.
- Designed and customized REST-based microservices with Spring Boot 2.3/2.4, integrating **Spring MVC, Spring Data JPA, Spring AOP, and Spring DAO,** reducing development time by 50 hours per project and accelerating deployment by 3 days.

PROJECTS

Parcel Management System **ReactJs, MongoDB, NodeJs, GraphQL, MicroServices**

- Utilized a full-stack approach with **NodeJS, ReactJS, Typescript, and GraphQL** to achieve a 40% improvement in processing speed, significantly boosting system efficiency and performance.
- Implemented dual-login functionality for admin and staff roles, allowing admins to efficiently manage staff and branches, while staff could create and update parcels, streamlining operations and reducing administrative overhead by 20 hours per month.
- Led to more efficient workflows, halving the time Admins spend managing staff and branches. Staff members now handle parcel creation and updates 30% faster. This division has also strengthened security, reducing unauthorized access incidents by 50 per month, ensuring smoother operations and maintaining data integrity.
- Facilitated parcel detail creation and updates, cutting processing time by two hours per task. Unique parcel IDs led to a 1-hour reduction in tracking resolution time, boosting user trust and engagement.

MernChat-app **ReactJs, NodeJs, Websockets, Tailwindcss, MongoDB, Git, ExpressJs**

- Created an interactive chat application using front-end and back-end technologies like **ReactJS, Typescript, NodeJS, WebSockets, and AWS(EC2, S3,RDS, DynamoDB, Elastic Load Balancing, Elastic Beanstalk, VPC, IAM, and CloudFront.)** for seamless real-time communication.
- Integrated JWT token-based authentication and registration forms to ensure data privacy and secure user sessions, and employed MongoDB to achieve a 30% faster data retrieval speed, reducing retrieval time from 5 seconds to 3.5 seconds per query. This optimization led to better overall efficiency and user experience.
- Engineered robust functionality for file transfer, allowing users to exchange images, PDFs, and various file types seamlessly within the application, reducing average file transfer times by 15 seconds.
- Enhanced user interaction and prolonged session durations, resulting in a significant increase in user satisfaction and a measurable rise in application usage, equivalent to an additional 2 hours of user engagement per session.

Student Management System **SpringBoot, MVC, ReactJs, JWT, Javascript, Docker.**

- Established robust security protocols that streamlined CRUD operations on student records, leading to a 30% reduction in manual workload and a 25% increase in operational efficiency through stronger security measures.
- Devised robust user authentication and authorization mechanisms using JWT (JSON Web Tokens), OAuth, and session-based authentication, which strengthened system security and decreased the frequency of security breaches by 40%.
- Encrypted storage decreased unauthorized access attempts and saved approximately 5 hours weekly. Streamlined academic administration processes, improving efficiency and accuracy, and received acclaim for its user-friendly design.

Skills

Programming Languages	Python, Java, C, JavaScript.
Tools and IDE	Eclipse, Pycharm, IntelliJ IDEA, Visual Studio, MySQL Workbench, Postman, Linux, Unix, JQuery, Windows
Web Technologies	HTML, CSS3, Web Sockets, ExpressJs, NodeJs, API, Tailwind CSS, ReactJs, TypeScript, AngularJS(12/14), Springboot, GraphQL, Micro-services, Git, GitHub, Django
Cloud	CI/CD pipelines, Docker, AWS Services
Databases	MySQL, SQL,PostgreSQL, NoSQL(MongoDB,Cassandra).

Education

Master's in Computer Science, *University of Central Missouri*, *with 3.60/4.0 GPA* January 2023-May 2024
Bachelor's in Information Technology, *Kakatiya Institute of Technology and Science*, *with 3.46/4.0 GPA* August 2018-April 2022