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# Reha K Full stack engineer

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Software Engineer with 3 years of hands-on experience developing full-stack applications using Angular, JavaScript, and API development. Proven track record in designing scalable solutions and collaborating with cross-functional teams to deliver high-quality products. Passionate about creating innovative technology solutions with strong problem-solving abilities and attention to detail. Eager to bring technical expertise and dedication to a century-old manufacturing company with a strong commitment to growth and employee development.

## EDUCATION

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### Master of Engineering in Computer Science

University of Cincinnati,Cincinnati,OH

Anticipated Apr 2025

### Bachelor of Technology in Computer Science and Engineering

Indian Institute of Information Technology, Dharwad (IIITDWD) ,Karnataka,India

Aug 2019 - May 2023

## WORK EXPERIENCE

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### Software Engineer, PTC,USA

May 2024 – Present

- Formulated a comprehensive cloud architecture using AWS resources such as Lambda for serverless functions and RDS for relational databases, employing Agile methodologies and Scrum within an application development environment on Linux and Ubuntu; established robust Infrastructure-as-Code practices that reduced environment provisioning time by 70%.
- Innovated an advanced generative AI solution using Next.js, TypeScript, React.js, leveraging Components and Hooks, Golang, Python and AWS, improving the text generation process and contributing to software architecture improvements, resulting in a 30% increase in project turnaround speed while maintaining high-quality standards.
- Elevated the quality of deliverables by conducting rigorous Java Software Testing throughout the Software Development Life Cycle, implementing code optimization strategies for Production Systems using algorithms and modeling, and identifying root cause of issues, resulting in a 30% decrease in post-launch bug reports across all web applications developed through Quality Engineering principles.
- Implemented robust unit testing procedures within an Agile Methodology framework and leveraged advanced data structures to enhance code quality and maintainability, resulting in a 20% reduction in debugging time.
- Leveraged Software Engineering principles to elevate and maintain enterprise-grade full-stack web applications using microservices architecture, Java, React, C++, GraphQL, and RESTful APIs, leveraging PostgreSQL and MongoDB within an Agile environment; enhanced system scalability and reduced latency by 40% through optimized database queries and API response handling, ensuring seamless Software Integration.
- Developed and deployed a microservice using Nest.js, improving API response times by 20%.
- Developed and maintained 300 React.js components utilizing Props, States, and Fragments, resulting in improved code organization and maintainability.
- Developed and implemented a deep learning model using GPU acceleration, resulting in a 20% improvement in processing speed.
- Designed and implemented high-performance drivers for a Compiler, improving system responsiveness by 20%.

### Software Engineer, HEAD DIGITAL WORKS,India

Jul 2021 – May 2023

- Leveraged Software Engineering principles to elevate and maintain enterprise-grade full-stack web applications using microservices architecture, Java, React, and RESTful APIs, leveraging MongoDB within an Agile environment; enhanced system scalability and reduced latency by 40% through optimized database queries and API response handling.
- Mentored junior developers in best practices for full-stack development, resulting in a 60% improvement in team efficiency.
- Developed a real-time data analytics dashboard using React.js and Redux, integrating JavaScript, HTML, CSS, WebSockets, and Java Design Patterns, increasing operational efficiency by 30%.
- Designed and developed server-side applications using Node.js and Express.js, creating RESTful APIs and implementing Tooling Design for various web applications, improving response times by 40% through Design Engineering principles.
- Integrated Continuous Integration and Continuous Delivery (CI/CD) pipelines (Jenkins, GitHub Actions, Docker, Kubernetes) on AWS using test driven development to automate deployments, reducing manual efforts by 60%.
- Designed and deployed cloud-native applications on AWS (EC2, S3, Lambda, RDS).
- Championed rigorous code review processes that enhanced project quality and security, leading to a 30% decrease in post-release defects while mentoring junior developers on industry best practices for better efficiency.
- Collaborated with 20 clients to gather feedback and identify 5 key areas for improvement in software functionality, resulting in 20% increase in user satisfaction.

## PROJECTS

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## BigData Provenance using ProvSQL

- Revitalized inbuilt SQL functions focusing on key provenance tasks such as adding elements and viewing records, incorporating HW acceleration engines and software verification techniques; achieved a more robust system with improved accuracy in maintaining data integrity by 15%.
- Created a comprehensive data linkage system connecting department identifiers to student names through advanced provenance mapping, enhancing tracking accuracy and improving administrative efficiency for over 1,000 students.

## Ancient text analytics

- Created and deployed advanced **Python** scripts for frequent pattern mining, enhancing data analysis precision by 40%; incorporated NLP techniques to improve text analysis accuracy to over 91%.

## SKILLS AND CERTIFICATIONS

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Certifications: NASSCOM Certification - Fundamental of Data analytics | Azure Az-900 | AWS Cloud Solutions architect

Programming Languages: JavaScript (ES6+), TypeScript, Python, C++, C#, VB.net

Frontend: React.js, Next.js, Redux, Material-UI, Tailwind CSS

Backend: Node.js (Express.js), Python (Flask/Django), RESTful APIs, GraphQL

Databases: MongoDB, PostgreSQL, MySQL, SQL Server, SQL, NoSQL,oracle

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda), Azure, Docker, Kubernetes, Terraform,Google cloud platform

Version Control & CI/CD: Git, GitHub Actions, Jenkins, Bitbucket, Agile/Scrum,Jest, Cypress, Mocha, Postman,jira,confluence, maven,eclipse

Deep Learning Software Packages: PyTorch, TensorFlow, ONNX