

DHEERAJ REDDY KUKKALA

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Work Experience

Software Engineer (Croyance, Remote)

Jan 2024 – Present

- Enhanced system efficiency by 30% through designing and implementing RESTful API microservices using Java and Spring Boot. Enabled efficient and flexible data retrieval for client applications by utilizing GraphQL
- Improved deployment speed by 40% by deploying scalable microservices on AWS EC2 using Docker and Kubernetes. Increased system responsiveness and scalability through the integration of Kafka for real-time processing

Software Engineering Intern (Rochester Institute of Technology, Rochester, NY, US)

May 2023 – Dec 2023

- Optimized system efficiency by 40% through the design and optimization of process workflows using Spring Boot and Java-based backend services, resulting in higher customer satisfaction
- Decreased manual data processing by 40% by implementing Java-based ETL process using Spring Batch for seamless data integration, improving data flow and visualization
- Achieved a 20% reduction in data processing time and a 25% improvement in analytical accuracy by developing efficient algorithms using Spring Data JPA and SQL for real-time data analysis and processing

Software Engineering Intern (Excellus BCBS, Rochester, NY, US)

Jun 2022 – Aug 2022

- Developed React components for customer and agent portals, enabling users to submit and verify insurance claims, which supported over 10,000+ active users monthly. Boosted engagement by improving claim submission efficiency through streamlined front-end logic
- Optimized backend process using Java to ensure seamless data flow between portals, leading to faster claim verification times and improving overall user experience

Software Engineer (MAQ Software, Hyderabad, Telangana, India)

Jan 2019 – Apr 2021

- Streamlined request submissions and support process by spearheading the development and integration of 20+ interactive user forms in Dynamics 365 using PowerApps Portals, enhancing customer experience and operational efficiency
- Improved responsive times for customer inquiries by 30% by incorporating JavaScript for client-side scripting and automating deployment and test case management using Azure DevOps, including the implementation of CI/CD pipelines
- Employed Agile methodologies to ensure rapid development cycles, fostering effective cross-functional team collaboration and optimizing both form usability and backend integration

Skills

- Programming Languages:** Python, Java, C, C++, JavaScript, TypeScript, HTML, CSS
- Web Development Frameworks:** Spring Boot, React.js, Next.js, Express.js, FastAPI, Django, RESTful APIs
- IDEs and Version Control Tools:** PyCharm, IntelliJ, Eclipse, Visual Studio Code, Git, Gradle, Maven
- Databases:** SQL (MySQL, SQL Server, Oracle DB), NoSQL (MongoDB, Neo4J)
- Other Tools:** Microsoft Azure, AWS, Power Automate, Power Query, Power BI, SSIS, SSAS, ArcGIS, SNOW
- Coursework:** Data Structures & Algorithms, Big Data, Object Oriented Programming, AI/ML, Distributed Systems

Projects

Pub-Sub Model — Python, Docker — [GitHub Link](#)

- Built a distributed file system using a publish-subscribe model, ensuring fault tolerance and scalability for large data volumes
- Reduced response time by 30% by utilizing Docker for real-time communication between nodes, enhancing system reliability

Movie Reviews App — React, Spring Boot, MongoDB — [GitHub Link](#)

- Developed a full-stack movie app using React and Spring Boot, enhancing user experience with an interactive interface
- Implemented RESTful APIs for submitting and viewing movie reviews, ensuring efficient client-server interaction
- Integrated MongoDB for scalable data storage, supporting an increasing volume of movie reviews

Craigslist Search — MongoDB, Fast API, Python, HTML and JavaScript — [GitHub Link](#)

- Built a web application enabling users to search for cars by manufacturer or proximity within 5km, improving search efficiency
- Processed and stored data for over 5K+ vehicles using MongoDB, ensuring fast search functionality and real-time data retrieval

Education

Master of Science in Computer Science (Specialization: Big Data Analytics)

Aug 2021 – Dec 2023

Rochester Institute of Technology, Rochester, New York, United States

Bachelor of Technology in Computer Science (Specialization: Networks and Security)

Aug 2015 – Jul 2019

Manipal Institute of Technology, Manipal, Karnataka, India