

# DHEERAJ REDDY KUKKALA

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## Work Experience

**Software Engineer** (Croyance, Remote) March 2024 – Present

- Designed and implemented RESTful API microservices using Java and Spring Boot, enhancing system efficiency by 30%. Utilized GraphQL to create efficient and flexible APIs, improving data retrieval for client applications
- Deployed scalable microservices on AWS EC2 using Docker and Kubernetes, achieving a 40% improvement in deployment speed. Integrated Kafka for real-time data processing, enhancing system responsiveness and scalability

**Software Engineering Intern** (Rochester Institute of Technology, Rochester, NY, US) September 2023 – December 2023

- Achieved a 40% increase in campus dining service efficiency and improved customer satisfaction with strategic adjustments
- Implemented ETL processes using Microsoft Fabric, Power Query, and Power BI for seamless data integration and visualization, reducing manual data handling efforts by 40%
- Developed and implemented efficient data analysis algorithms using PySpark Python and SQL, resulting in a 20% reduction in data processing time and a 25% increase in analytical accuracy

**Software Engineering Intern** (Excellus BCBS, Rochester, NY, US) June 2022 – August 2022

- Crafted multiple dynamic applications for web and mobile platforms, leveraging Java for efficient server-side logic and React.js for responsive UI; the solution now supports over 10,000+ active users monthly, driving increased engagement
- Implemented Agile practices in the development process, streamlining collaboration among cross-functional teams and reducing project lead time by 15%
- Enhanced system reliability by automating rollback procedures in case of deployment failures, which resulted in a 20% increase in uptime for critical applications, ensuring consistent service delivery to clients

**Software Engineer** (MAQSoftware, Hyderabad, Telangana, India) January 2019 – April 2021

- Spearheaded the development and integration of 20+ interactive user forms in Dynamics 365 using PowerApps Portals, significantly enhancing customer experience by streamlining request submissions and support processes
- Incorporated JavaScript for custom client-side scripting and Azure DevOps for deployment and test case management, leading to a 30% improvement in response times for customer inquiries
- Employed Agile methodologies to ensure rapid development cycles and effective cross-functional team collaboration, optimizing 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, Fast API, RESTful web services
- IDEs and Version Control Tools:** PyCharm, IntelliJ, Eclipse, Visual Studio Code, Git, Gradle, Maven
- Databases:** SQL (MySQL, SQL Server, OracleDB), NoSQL (MongoDB, Neo4J)
- Other Tools:** Microsoft Azure, Fabric, Power Automate, Power Query, Power BI, SSIS, SSAS, DataBricks, ArcGIS
- Coursework:** Data Structures & Algorithms, Big Data, Object Oriented Programming, AI/ML, Distributed Systems

## Projects

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

- Created a highly scalable publish-subscribe messaging model using Docker, enabling seamless real-time communication and enhancing system reliability, resulting in a 30% reduction in response time

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

- Developed a full-stack app for browsing and reviewing movies, using React for the front and Spring Boot for the back
- Implemented RESTful APIs to manage movies and reviews, enabling users to submit and view movie reviews
- Integrated MongoDB for efficient data storage and retrieval, supporting dynamic and scalable data models

**Craigslist Search** — MongoDB, FastAPI, Python, HTML and JavaScript — [🐙 GitHub Link](#)

- Built a web application enabling users to search for cars on Craigslist by manufacturer or proximity (5km radius)
- Processed and stored data for over 5K+ vehicles, significantly improving search efficiency and user experience

## Education

**Master of Science in Computer Science** (Specialization: Big Data Analytics) August 2021 – December 2023  
Rochester Institute of Technology, Rochester, New York, United States

**Bachelor of Technology in Computer Science** (Specialization: Networks and Security) July 2015 – July 2019  
Manipal Institute of Technology (MIT), MAHE, Manipal, Karnataka, India