

# Rajesh Kumar Reddy Avula

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## EDUCATION

**Indiana University | Luddy School of Informatics, Computing, and Engineering** Bloomington, IN  
*Master of Science in Computer Science, CGPA: 3.84/4.00* May 2025

**B.M.S Institute of Technology and Management** Bengaluru, India  
*Bachelor of Science in Information Science and Engineering CGPA: 8.51/10.00* Aug 2021

## EXPERIENCE

**Graduate Teaching Assistant** Aug 2023 – present  
*Indiana University Bloomington* Bloomington, IN

- Guided students in software engineering concepts through lab sessions, code debugging, project troubleshooting, and assignment evaluation with constructive feedback.
- Assisted faculty in refining course materials and led review sessions to enhance technical skills and support student success.

**Software Engineer** Aug 2021 – June 2023  
*Oracle* Bengaluru, India

- Conducted in-depth campaign analysis using Oracle Marketing Cloud, optimizing email initiatives by analyzing over 5,000 data points.
- Collaborated closely with cross-functional teams to ensure seamless integration of new features and built campaigns, including STO, A/B Testing, MVT, and suppressions.
- Planned project timelines, managed milestones, executed projects under tight deadlines, and facilitated client services.

**Software Engineer Intern** Jan 2021 – May 2021  
*Evertz* Bengaluru, India

- Worked on Vue.js to establish and manage end-user interactions.
- Engineered web pages using object-oriented design patterns and widgets.
- Gained knowledge of broadcasting concepts through working on the company website.

## PROJECTS

**Recipe Book App (Savory Stories) | React Native, firebase, firestore, Expo, Camera API** Aug 2024 – Dec 2024

- Developed Savory Stories, a recipe book app using Expo, Firebase Authentication, and the Spoonacular API, allowing users to browse and submit recipes.
- Integrated camera features, personalized filters, collections, and secure data storage in Firestore for an enhanced user experience and recipe management.

**Reddit Comments to Post Relevance Analysis | Python, LDA, LSTM, GPT, BERT,** Jan 2024 – May 2024

- Developed a system to classify the relevance of Reddit comments to posts on a scale of 1 to 5, with 5 being the most relevant. Pre-processed data by removing irrelevant comments, URLs, emojis, and special characters.
- Used TF-IDF vectorization for post titles and comments to generate embeddings. Developed a custom relevance metric that incorporates user engagement factors, cluster coherence, semantic similarity, and comment polarity for accurate ratings.
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**Apartments Management System (Rentr) | React, MongoDB, Netlify, Git** Aug 2023 – Dec 2023

- Developed and deployed a rental system on Netlify, enabling property owners and renters to connect via user-friendly filters, chat features, and secure third-party authentication.
- Built using HTML, CSS, JavaScript, React, Node.js, and MongoDB to streamline property searches and enhance user experience.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

**Frameworks and Libraries:** React, Node.js, Material UI, Vue.js, JUnit, WordPress, Material-UI, pandas, NumPy, Matplotlib

**Developer Tools:** Git, Docker, Google Cloud Platform, Visual Studio, PyCharm, Eclipse, Android Studio, Xcode

**Others:** Oracle Responsys, Postman, Photoshop, Dream Viewer, Netlify, Mango DB, Microsoft Excel, Power BI

**Oracle Cerifications:** Java SE 8 Associate Programmer, Database SQL Certified Associate, Responsys Marketing Platform, Java Explorer Badge