

# Navdeep Reddy Vitta

## Adaptable Software Engineer | Agile Development

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### Skills

- Programming Languages: Python, Java, JavaScript.
- Frameworks: React.js, AngularJS
- Databases: MySQL, AWS Redshift
- Version Control: Git
- Miscellaneous Technologies: AWS, SQL, REST APIs, Jira, Docker, HTML, Bootstrap, CSS, MVC, JSON, Web Services, Microservices architecture, Jenkins, Maven, JUnit, jQuery, Qlik, Smart Sheets

### Education

Masters in Engineering, Computer Science & Engineering  
*University of Cincinnati*

2024

- GPA 3.96 / 4

Bachelor's in Computer Science & Engineering, Computer Science & Engineering

*CVR College of Engineering*

2021

- GPA 3.85 / 4

### Professional Summary

Adaptable and motivated software engineer with expertise in Python, Java, and full-stack development using React, JavaScript, and AWS. Successfully led projects that improved data accuracy by 20% through AWS Redshift optimizations and reduced data processing time by 50% using AWS Batch automation. Proficient in designing responsive user interfaces with React and integrating them with RESTful APIs built on FastAPI. Skilled in algorithm design, problem-solving, and cloud-based solutions, aiming to contribute to innovative distributed computing environments and agile software development.

### Work Experience

**Accolade** • Plymouth Meeting, PA

Jan 2024 - Aug 2024

*Software Engineer*

- Investigated and implemented options for hydrating popularity metrics from read-only cluster in AWS Redshift, improving data accuracy by 20%.
- Integrated React.js for the front-end with Flask for the back-end, enabling real-time data updates and seamless communication between the user interface and the server, resulting in a more responsive and dynamic user experience.
- Implemented AWS Batch as Infrastructure as Code (IaC) to automate data processing workflows, reducing processing time by 50% compared to AWS Lambda.
- Developed a new source to aggregate user data from AWS Redshift, resulting in a 30% improvement in query performance.

**Mindtree Ltd** • Bangalore, India

Oct 2020 - Jun 2022

*Software Engineer*

- Developed and maintained user-friendly web interfaces using React.js, improving user engagement and application responsiveness.
- Implemented and managed cloud-based services on AWS, including S3 and Lambda, to optimize application performance and scalability.
- Integrated React.js front-end with Fast API back-end, ensuring seamless data flow and efficient communication between client and server.
- Implemented complex UI components such as carousels and modal dialogues using React Hooks, improving the visual appeal and functionality of the web pages.
- Utilized version control with Git and participated in code reviews, fostering a collaborative development environment and improving code quality.
- Collaborated with a team of developers and product owners to deliver high-quality software using Agile methodologies, participating in daily stand-ups, sprint planning, and retrospective meetings.

*Software Engineer intern*

- Configured AWS S3 for hosting and serving static assets like images, scripts, and style sheets, reducing load times and improving the application's scalability.
- Implemented AWS Lambda functions to handle background processing tasks, such as image processing and data transformation, reducing load on the main application and improving response times.
- Implemented scalable data storage solutions using AWS DynamoDB, while containerizing the application using Docker and managing container images with ECR.

## Projects

Automated Pricing & Renewal Management

Jun 2024 - Aug 2024

*Accolade*

- Designed a common source of truth with up-to-date and validated data, aggregating it to multiple sources like Salesforce, Qlik, and LinkSquares.

Document Summarization with RAG

Sep 2023 - Nov 2023

- Implemented a RAG-based system that retrieves relevant documents and generates concise summaries using a combination of Elasticsearch for retrieval and GPT for generation.

Library Management System

Jan 2023 - Apr 2023

- Developed a full-stack Library Management System using React for the front-end and Spring Boot with MySQL for the back-end, enabling efficient tracking and management of library resources.