

Dheeraj Gedupudi

Santa Clara, CA

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EDUCATION

Santa Clara University

Master of Science | Computer Science & Engineering

Relevant Coursework: Data Structures, Algorithms, Distributed Systems, Object Oriented Programming, Databases

Santa Clara, CA

Sep 2023 – Jun 2025

Osmania University

Bachelor of Engineering | Computer Science & Engineering

Hyderabad, TS

Aug 2018 – Jun 2022

SKILLS

Languages: Java, Ruby, C, Python, Kotlin, SQL, JavaScript, TypeScript, HTML, CSS

Frameworks & Libraries: Spring, REST, Rails, React.js, Next.js, Node.js, JQuery, Bootstrap, Tailwind CSS

Databases: MySQL, PostgreSQL, MongoDB

Platforms/Tools: Amazon Web Services (AWS), Apache Kafka, Git, Heroku, Netlify, Postman, Maven, Junit, Jira

Competitive Coding: Solved 1,100+ coding challenges

EXPERIENCE

Software Engineer Intern

HaleMind Inc (Health Tech firm providing connected electronic record platform)

Chicago, IL

Jun 2024 – Aug 2024

- Conducted performance analysis, applying optimizations like **asynchronous loading (AJAX)**, **pagination**, and query refinement to cut data retrieval times by **30%** and page load times by **50%**
- Refactored database queries, **eliminating N+1 query issues** and improving platform scalability under high user demand
- Implemented **caching mechanisms** for frequently accessed data, reducing query load and improving system responsiveness

Software Engineer

Fervid Smart Solutions, India (Edtech firm providing services to emerging governments)

Hyderabad, TS

Dec 2022 – Jul 2023

- Developed key **backend** components for a Learning Management System using **Java** and **Spring Boot**, implementing a **layered architecture** (DAO, service, controller) to ensure scalable, modular, and efficient data processing
- Led **Next.js** migration efforts for the teacher app, collaborating with frontend team to deliver **2 sprints ahead of schedule**
- Revamped **MySQL** schema with **indexing**, restructuring tables, and **query optimization**, reducing data retrieval time by **60%**

Software Developer Intern

Zemoso Technologies, India (Consulting firm specializing in MVP services)

Hyderabad, TS

Mar 2022 – Aug 2022

- Refactored a Spring Boot app using **SOLID** principles, amplifying scalability, maintainability, and reducing development time
- Crafted React UIs for dish selection and checkout in a Restaurant MVP, refining UX and reducing order time by **25%**

PROJECTS

Real Time Sports Hub | SCU Distributed Systems Project |

- Led a team of three to engineer a scalable, fault-tolerant sports platform enabling real-time, topic-based score updates with Spring Boot and RESTful APIs, facilitating publisher-broker-subscriber communication
- Engineered **leader election**, **data replication**, and **heartbeat mechanisms**, ensuring system reliability, data consistency, and real-time responsiveness even under failure conditions
- Technologies:** Java, Spring Boot, Apache Kafka, RESTful APIs

Sorting Visualizer |

- Developed an interactive app to **visualize** five sorting algorithms (**Bubble**, **Insertion**, **Selection**, **Merge**, and **Quick Sort**), enabling **real-time exploration** of each algorithm's steps, deployed on **Netlify** for accessibility
- Built a custom, **modular graph component** with intuitive controls like play, pause, next, previous, reset, and adjustable transition speed, ensuring seamless interaction across all sorting algorithms
- Technologies:** JavaScript, React.js

Online Bookstore | SCU Database Systems Project |

- Created an online bookstore platform with **role-based access control** for secure user authentication and admin tools
- Designed the backend in a **layered architecture** to manage users, books, orders, reviews, carts, and stock, ensuring efficient operations and inventory tracking
- Technologies:** Java, Spring Boot, MySQL, Hibernate ORM, Thymeleaf