

Anvisha Singh

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Education

University of Florida , MS in Computer Science, Gainesville, FL GPA: 3.83/4.0 Coursework: Advanced Data Structures, Analysis of Algorithms, Distributed Operating Systems, Natural Language Processing	Aug 2024 – May 2026
Manipal Institute of Technology , B.Tech in Electronics and Communication, Manipal, India GPA: 9.06/10.0 Coursework: Database Systems, Object-Oriented Programming, Computer Organization and Architecture	Aug 2018 – May 2022

Experience

Associate Software Developer , Oracle – Hyderabad, India	Aug 2022 – Feb 2024
• Engineered and deployed a Bash-scripted application installer across the firm, integrating a custom shell script for redundant file removal, decreasing customer downtime by 50% and reclaiming 200+ annual maintenance hours.	
• Spearheaded and demonstrated a machine learning model using exponential smoothing in OML4SQL and Python with Pandas and NumPy, enabling accurate sales forecasting resulting in improved marketing decisions for customers.	
• Created a Python-based utility to automate database integrity checks within Oracle's database multitenant architecture, ensuring data consistency across 500+ database patches every year and minimizing error rates to near-zero.	
• Developed and adapted Java-based migration plugins and OAuth2 protocols, to facilitate secure user transitions from on-premises to cloud for 5,000+ users, achieving 100% compatibility with Oracle cloud configurations and zero downtime.	
Software Engineer Intern , Oracle – Hyderabad, India	Jan 2022 – Jul 2022
• Boosted system performance by 30% through developing robust APIs that enhance SRE's telemetry pipelines, exposing over 50 server metrics using OpenTelemetry and Prometheus.	
• Reduced troubleshooting time by 25% through implementing correlation IDs in orchestration calls, enabling efficient tracing and debugging of over 1 million daily requests across microservices.	
Software Engineer Intern , SANY – Maharashtra, India	Apr 2021 – May 2021
• Reduced stock discrepancies by 40% and operational costs by architecting a full-stack inventory management application for printer cartridges, tracking over 5,000 units across 10 locations.	
• Engineered a MySQL database to manage over 100,000 records and a Java Swing front-end to serve 50+ users.	

Projects

Full-Stack Housing App - React, Go, NLP	Jan 2025 – May 2025
• Built and deployed a full-stack web app for 1000+ users to find housing and roommates via personalized filters, Google Maps integration, and NLP-powered property summaries.	
• Developed scalable Go APIs, React UI, secure authentication, and a custom matchmaking algorithm to enable real-time search, favorites, and profile management.	
Reddit Clone - Go, ProtoActor, Rest API	Oct 2024 – Dec 2024
• Built a scalable, multi-process Reddit-like engine and a robust simulator simulating thousands of users efficiently managing user interactions, while measuring system performance under load.	
• Defined and rigorously tested REST APIs, optimizing MongoDB database queries to handle 1,000+ requests per second, reducing the average response latency by 20% and ensuring a seamless user experience.	
Gossip Algorithm - Pony, Distributed Systems	Sep 2024 - Nov 2024
• Implemented a fault-tolerant gossip protocol using Pony's actor model, distributing tasks across 8 CPU cores to achieve parallelism, resulting in a 3x reduction in computation time for message dissemination in a 100-node network.	
• Enhanced CPU utilization by 25% and ensuring efficient convergence of distributed system under varying network conditions.	

Technical Skills

Java, Go, Python, C++, JavaScript, TypeScript, Oracle SQL, MongoDB, Spring Boot, React, Node.js, Flask, Docker, Kubernetes, Microservices Architecture, Distributed Systems Design, RESTful API Design, Redis, AWS (EC2, S3, Lambda), Jenkins, GitHub, Linux/Unix, OpenTelemetry, Prometheus, Zipkin, Pandas, NumPy, TensorFlow, Keras, CNN, LLM, Unit Testing (JUnit, PyTest)