Anvisha Singh

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Education

University of Florida, MS in Computer Science, Gainesville, FL   Aug 2024 – May 2026

GPA: 3.83/4.0 | **Coursework:** Advanced Data Structures, Analysis of Algorithms, Distributed Operating Systems, Natural Language Processing

Manipal Institute of Technology, B.Tech in Electronics and Communication, Manipal, India   Aug 2018 – May 2022

GPA: 9.06/10.0 | **Coursework:** Database Systems, Object-Oriented Programming, Computer Organization and Architecture

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   Jan 2021 - Mar 2021

- 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)