Manas Sharma

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EDUCATION

University of California San Diego — La Jolla, CA
M.S. Computer Science GPA: 4.0/4 — Expected Dec 2023

The National Institute of Engineering — Mysore, India
B.E. Computer Science GPA: 9.37/10 — 2017-2021

TECHNICAL SKILLS AND RELEVANT COURSES

Languages	C++, Python, Java, SQL, GoLang
Tools	Git, Object Oriented Programming, Cloud, Spring, gRPC, React
Teaching Assistant	Probability and Statistics for Computer Science
Courses	Recommender Systems, Algorithm Design & Analysis, Probabilistic AI

WORK EXPERIENCE

Graduate Student Researcher — Jul 2023 - Present
UC San Diego — *La Jolla, CA*

- Under Prof. Yoav Freund, using conformal predictions to understand the stability of neural networks.

Software Engineer — Feb 2023 - Jun 2023
UC San Diego — *La Jolla, CA*

- Developed the payment service for ITA, used Django and React and collected more than $200,000.
- Integrated scheduling, profiling, and gallery features with REST APIs to enhance attendees experience.

Software Engineer — Feb 2021 - Sep 2022
JP Morgan Chase & Co — *Bangalore, India*

- Ensured a highly scalable and fault-tolerant error correction system using Spring and React that could ingest over 100 GB of data every day and provide real-time overview in a customizable dashboard.
- Achieved a 40% reduction in error-fixing time by designing an automated workflow service to optimize system operations.
- Implemented robust APIs and data management systems to support efficient data retrieval and processing for land and load related applications.
- Established an end-to-end CI/CD pipeline for our cloud-native microservices ecosystem, enabling agile development and enhancing overall software quality.
- Incorporated unit test cases using JUnit to ensure code quality and achieve a code coverage of over 95%.

Software Engineering Intern — Jun 2020 - Jul 2020
JP Morgan Chase & Co — *Bangalore, India*

- Developed a database schema for a scheduler application that streamlined activity scheduling and notifications management.

RELEVANT PROJECTS

Temporal and Spatial feature analysis :Analyzed the effect of having temporal and spatial data in the recommendation systems and compared the results on various models like BPR, latent factor model, neural networks and others. [Link]

SurfStore : A fault resistant online cloud storage solution designed in GoLang, utilising gRPC that allows the shared storage between several clients while maintaining concurrency and security. [Link]