

THARUN SURESH

San Diego, California | (408) 507-8129 | thsuresh@ucsd.edu | <https://www.linkedin.com/in/tharun-suresh>

EDUCATION

Master of Science in Business Analytics, GPA: 3.91

12/2024

University of California, San Diego, CA

- **Acquired Skills:** Recommendation Systems, Machine Learning, NLP, Customer Insights, Data Wrangling

Master of Technology in Computer Science, GPA: 3.97

09/2022

IIIT-Delhi, New Delhi, India

- **Acquired Skills:** Data Structures & Algorithms, Object Oriented Programming, Deep Learning, Cloud Computing

EXPERIENCE

Machine Learning Engineer, Visnet AI, Hyderabad, India

02/2023 - 07/2023

Hire #4 at Visnet, a startup in AI as a Service (AIaaS) space catering to global customers

- Built real-time streaming inference pipeline using Python, Pytorch, **Amazon Elastic Kubernetes Service (AWS EKS)** and **Simple Storage Service (AWS S3)** achieving an optimized inference latency of **0.6 seconds/image**
- Decoupled segmentation metadata from images with React, Nodejs and Python by which form-data load size in a REST API request was **reduced by 99%**
- Performed **code & system design reviews** for new customer projects by serving as a technical mentor to an intern

Software Engineer, Citigroup, Chennai, India

07/2017 - 07/2020

- Lead the design and development of a **microservice** that unifies cache across **20+ low-latency applications** using Sybase DB (SQL), Gemfire Cache and Spring Boot ensuring reliability, consistency and compliance
- Developed **automated batch processing** of failed trades with Java, Java Swing and SQL significantly reducing manual re-booking efforts from **3 hours to 10 minutes**
- Redesigned the **entire front-end** of eSales web app using HTML, JQuery and CSS for a modern look and feel
- Spearheaded a pilot project of shared framework for multiple report views leveraging Java, HTML and SQL which was awarded the **best process improvement project**
- Transformed customer data views with web storage using HTML and JQuery reducing web requests **from 50 to 1**
- Adhered to the Agile model of Software Development Life Cycle (SDLC) & minimum development standards, achieving **unit test coverage of 90%** with **continuous integration and deployment (CI/CD)**

PROJECTS

Project Lead, Snowflake Integration of Weather Data, SQL & ETL, UC San Diego

08/2023 - 09/2023

- Wrote **data ingestion pipelines** to consume data from CSV/XML/Postgres/live data (Snowflake Marketplace)
- Combined data using **window/recursive functions** and CTE's in SQL **reducing storage by 67%**

Author, Counseling Summarization using Mental Health Knowledge, LCS2, IIIT-D

01/2021 - 02/2022

- Leveraged **topic classification and text generation (NLP)** by annotation of sub-topics and summaries requiring domain specific understanding of mental-health therapy conversations
- Conceptualized fusion of **transformer architecture** using Pytorch and Tensorflow, outperforming the best baseline **by 90 points** on Bleurt score
- Examined the **ethical considerations** and discussed the responsible implementation of AI

SPECIALIZED SKILLS

- Languages/Coding: Python, SQL (Advanced), Java, C, C++, HTML, JavaScript, JQuery, CSS, React, Nodejs, R
- Operating Systems: Linux/Unix, Microsoft Windows
- Tools: AWS, Pytorch, Tensorflow, Pandas, Sybase DB, Git, CI/CD, REST API, docker, Kubernetes, Gemfire
- Projects: <https://scholar.google.com/citations?user=FYqMCu4AAAAJ>, <https://github.com/tharunsuresh-code>
- Certifications: Google Cloud Program - Data Science Track, Citi Engineering Excellence - Level 1

PROFESSIONAL AFFILIATIONS & LEADERSHIP

- **Co-Director of Marketing**, Rady Data Analytics Club 09/2023 - Present
- **Teaching Assistant**, Warren Writing Program, UC San Diego 02/2024 - Present
- **Co-Founder, Hextreme**: Led a startup for online learning for lower ranked colleges 10/2020 - 01/2021