

THARUN SURESH

Seattle, Washington | (408) 507-8129 | stharunvikram@gmail.com | <https://www.linkedin.com/in/tharun-suresh>

EXPERIENCE

- System Development Engineer**, Amazon, Seattle 10/2024 - Present
- Building Intelligent Cloud Hosting Audit and Fix Solution (IAFS) using **AWS Lambda, State Machine, and Cloud Formation** with **CDK (Cloud Development Kit)**, reducing service onboarding time from **4 to 2 weeks**.
 - Triaging issues faced by onboarded services in cloud infrastructure as part of **on-call**, and automating potential fixes to increase software development time from **50% to 70%**.
- Founding 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 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**
 - Performed **code & system design reviews** for new customer projects by serving as a technical mentor to an intern
- Senior Software Engineer**, Citigroup, Chennai, India 01/2019 - 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**
- Software Engineer**, Citigroup, Chennai, India 07/2017 - 01/2019
- 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)**

EDUCATION

- Master of Science in Business Analytics**, GPA: 3.77 09/2024
- University of California, San Diego, CA
- Acquired Skills**: Recommendation Systems, Machine Learning, Fraud Analytics, Data Wrangling
- Master of Technology in Computer Science**, GPA: 3.97 09/2022
- IIT-Delhi, New Delhi, India
- Acquired Skills**: Data Structures & Algorithms, Natural Language Processing, Deep Learning, Cloud Computing

PROJECTS

- Project Lead**, Analyzing Earnings Call Transcripts, AlphaTrAI & UC San Diego 03/2024 - 06/2024
- Wrote **data ingestion pipeline** using Python & REST API to scrape 10K transcripts from Discounting Cash Flows
 - Explored various **NLP methods & LLM integration** to present insights on price action to investors
- Author**, Counseling Summarization using Mental Health Knowledge, LCS2, IIITD 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

SPECIALIZED SKILLS

- Languages/Coding: Python, SQL, Java, C++, HTML, JavaScript, JQuery, Postgres, React, Nodejs, Linux/Unix
- Tools: AWS, Pytorch, Tensorflow, Pandas, Sybase DB, Git, CI/CD, REST API, docker, Kubernetes, Spark
- Projects: <https://scholar.google.com/citations?user=FYqMCu4AAAAJ>, <https://github.com/tharunsuresh-code>

PROFESSIONAL AFFILIATIONS & LEADERSHIP

- Co-Director of Marketing**, Rady Data Analytics Club 09/2023 - 06/2024
- Co-Founder, Hextreme**: Led a startup for online learning for lower ranked colleges 10/2020 - 01/2021