Uday Puttireddi

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#### SUMMARY

Detail-oriented and passionate Software Engineer with hands-on experience building responsive, scalable front-end applications using TypeScript, React, and RESTful APIs. Strong foundation in software development principles, clean coding, and UI/UX design. Proven ability to collaborate cross-functionally and deliver performant user experiences, with projects focused on video content platforms, e-commerce, and AI-integrated tools.

#### EDUCATION

## Minnesota State University

Bachelor of Science in Information Technology, Minor in Mathematics

#### EXPERIENCE

### Teaching Assistant

Minnesota State University

- Facilitated interactive sessions and study groups, simplifying complex topics like algorithms and data structures to boost student engagement and comprehension.
- Partnered with faculty to design course content, create assessments, and deliver actionable feedback that improved student academic performance.

## International Enrollment Assistant

Minnesota State University

- Processed 300+ international student applications by verifying documents and coordinating communication, streamlining the admissions workflow.
- Guided incoming international students through enrollment and visa procedures, improving onboarding efficiency and enhancing student satisfaction.

#### PROJECTS

AI Expert-in-a-Box | Llama 3 API, Prompt Engineering, Python, Streamlit, LangChain

- Designed and built a multi-step AI agent capable of autonomously interpreting complex user instructions, generating solutions, and refi ning outputs using advanced prompt engineering strategies.
- Implemented prompt chaining, few-shot learning, and self-evaluation prompts to handle tasks like codegeneration, document summarization, and custom task workfl ows.
- Integrated Llama 3 API with a Python backend and Streamlit UI to simulate human-level task planning and response generation in real time.

## Delta Airlines Blackbox System | UML, Jira, SQL, Draw.io, Microsoft Office Suite, QA Testing

- Reverse-engineered Delta's booking system using black-box analysis to document technical workflows via UML (DFD, ERD).
- Authored 40+ user stories and 100+ test cases, uncovering critical defects like overbooking and payment failures.
- Led quality assurance efforts and defect analysis, improving system reliability and user experience.

## Visualizing Netflix Data | Amazon QuickSight, AWS S3, AWS Glue, Data Modeling, BI Tools

- Built interactive dashboards in Amazon QuickSight to visualize global Netflix content trends and user engagement metrics.
- Engineered ETL pipelines using AWS S3 and AWS Glue, optimizing large dataset ingestion and reducing transformation time.

#### TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, R, Java, C/C++, MATLAB, HTML/CSS Tools & Frameworks: React, AWS (S3, Glue, QuickSight), Git, Linux, Jira, Microsoft Suite Concepts: Component-based architecture, state management, API integration, responsive design, cloud deployment AI & Cloud: Prompt Engineering (DeepLearning.AI), AWS, Azure, Data Visualization, ETL Pipelines Soft Skills: Creative problem solving, cross-functional collaboration, technical writing, experimentation

#### CERTIFICATIONS & LEADERSHIP

<b>Prompt Engineering for Developers</b>   $DeepLearning.AI \ \ \ OpenAI$	Nov 2024
LangChain for LLM Application Development   DeepLearning.AI	June 2025
Student Association of India   Secretary	Jan 2021 – May 2023
Member of IEEE   Nominated Attendee at 2023 IEEE Rising Stars Conference in Las Vegas	Jan 2023

Aug. 2021 – May 2025 Mankato, MN

# Aug 2024 – May 2025

April 2022 – May 2025

Mankato, MN

Mankato, MN