AKSHAY VARMA PENMATSA

GitHub: github.com/akshay722
Leetcode: leetcode.com/u/akshay722/
Website: akshayvarmaportfolio.netlify.app

Location: Dallas, TX (F1 Visa)
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Education

University of Texas at Dallas   **December 2024**
Master of Science, Information Technology   **GPA 3.9/4.0**
Coursework: Cloud Computing, UI/UX Design, Machine Learning, Python Programming, Agile Methodologies

Manipal Institute of Technology, Manipal, India   **September 2020**
Bachelor of Technology, Computer Science

Skills

Programming Languages:	JavaScript (ES6), TypeScript, Python, HTML5, SQL
Web Technologies:	React.js, CSS, Redux, Node.js, Webpack, MySQL, RESTful API, Flask, AJAX
DevOps Tools:	Docker, Kubernetes, Postman, Selenium, Git, Jenkins, Jira, Azure
Certifications:	AWS Cloud Practitioner (In Progress)

Professional Experience

Aigiliti Professional Services LLC   Delaware, United States
Full Stack Intern   June 2024 - August 2024
- Led the development of a POC multi-exchange trading interface using React and JavaScript.
- Engineered a microservice synchronizing external events to database, updating every 15 seconds.
- Implemented AWS Cognito-based authentication system with secure secret hash and JWT token handling.

FourKites   Chennai, India
Software Engineer   June 2022 – August 2023
- Implemented React-Redux for XState-managed components, reducing unnecessary re-renders.
- Developed 10+ React-TypeScript design system components and improved the architecture by restructuring.
- Designed and created REST APIs that enabled users to save and re-use filters.
- Collaborated with the US team to develop redesigned legacy application with micro frontend architecture.
- Led integration of unit testing using Jest that led to a 30% decrease in deployment errors.

Relative Finance   Hyderabad, India
Software Engineer, Founding Member   November 2021 – June 2022
- Improved render time by 25% through optimization techniques like lazy loading, code splitting, memoization, and image compression using React.js and TypeScript.
- Built scalable web pages with reusable UI components, REST APIs, and efficient PostgreSQL database queries.
- Reduced API response time by implementing protocol buffers in Go for efficient data serialization.

iSpace Inc   Hyderabad, India
Software Engineer   January 2021 – November 2021
- Implemented 5+ personalization widgets across modules using React and JavaScript.
- Collaborated with senior developers to design and build RESTful APIs using Java.

Academic Projects

SPED AI Assistant | React | JavaScript | LangChain | Python | MongoDB ([GitHub](#)):   May 2024 – July 2024
- Engineered an AI-powered assistant to centralize SPED resources and to interpret children's IEPs using RAG.

BFS & DFS Visualizer | Data Structures and Algorithms | React ([GitHub](#)):   January 2024 – February 2024
- Developed an interactive visualizer for Breadth-First Search and Depth-First Search algorithms using Python.

Dealership Chatbot Application | SQL | MySQL | React | MongoDB ([GitHub](#)):   September 2023 – November 2023
- Built a chatbot that retrieves data from SQL database and assists users in purchasing cars.

E-Commerce Website | Java | Spring | React | JavaScript | SQL ([GitHub](#)):   September 2023 – November 2023
- Developed end to end e-commerce website using React, JavaScript, Java and Spring Boot.

Awards and Achievements

- Contributed to 50% increase in memberships as VP of Public Relations in Toastmasters at UT Dallas.
- Rewarded FourKites Engineering Excellence Award for remarkable year-round agility.