SUSHRUTH DANIVASA SRIDHAR

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EDUCATION

University of Wisconsin – Milwaukee September 2023 - May 2025
Master of Science in Computer Science, CGPA: 3.80/4

Dayananda Sagar Academy of Technology and Management August 2018 - July 2022
Bachelor of Engineering in Information Science, CGPA: 8.3/10

SKILLS

Programming Languages: Python, C, JavaScript, TypeScript, Java
Web Technologies: HTML5, CSS3, React.js, Django, Flask, REST APIs
Cloud and DevOps: Azure, Amazon Web Services (S3, EC2, Lambda), GCP
Containerization and Deployment: Docker, Kubernetes, CI/CD Pipelines
Databases: MySQL, PostgreSQL, MongoDB, SQL, NoSQL
Tools and Version Control: Git, GitHub, Linux, Visual Studio Code, Postman
Coursework: Data Structures and Algorithms, Machine Learning, Natural Language Processing, Cloud Computing

Work Experience

Software Analyst, KPMG August 2022 – July 2023

- Led the **migration** of 10+ business-critical applications to **Microsoft Azure** and **AWS** using Databricks, modernizing legacy systems into distributed cloud-native architectures and reducing operational **overhead by 15%.**
- Designed and deployed AI-driven cloud systems and led **API development** using RESTful standards, enabling scalable microservices that improved maintainability and accelerated **feature delivery by 30%.**
- Optimized PostgreSQL data workflows, boosting query performance across high-volume pipelines.
- Automated **CI/CD pipelines** with GitHub Actions and Jenkins, cutting **deployment time by 40%** and increasing release stability via rigorous software testing and code reviews.
- Containerized **microservices** with Docker and orchestrated deployments across environments, integrating DevOps best practices into the software development lifecycle (SDLC).

Software Developer Intern, WIPRO March 2022 – May 2022

- Built **RESTful APIs** and backed services using **Java** and **MongoDB**, applying object-oriented programming (OOP) principles to improve code modularity and data access efficiency by 20%.
- Collaborated with a cross-functional Agile team on sprint planning and debugging, reducing post-deployment **issues by 10%.**
- Wrote unit and integration tests for backend services, improving **test coverage by 25%** and ensuring more reliable releases.

Projects

UWM College Chatbot – AI-Powered Student Assistant *Link* May 2025

- Developed a full-stack AI chatbot using **Flask**, **Google Gemini API**, and a custom dataset scraped from UWM CS websites, enabling context-aware responses through **LLM** prompt engineering.
- Implemented **backend APIs** for Gemini query handling, chat session context, and appointment workflows using Flask-Mail and structured logging via JSON and CSV files.
- Designed and deployed a responsive frontend with **HTML, CSS,** and **JavaScript** featuring animated UI and asynchronous request handling, hosted on **Azure App Service** and tested with 100+ real-world queries at over **95% response accuracy**.

Traffic Sign Recognition *Link* December 2024

- Trained a **deep learning** model with CNNs for traffic sign classification to enhance autonomous driving and ADAS, using the GTSRB dataset with 50,000+ images across 40+ classes.
- Constructed data preprocessing, augmentation, and evaluation modules in Python using NumPy, OpenCV, and TensorFlow, managed with Git version control, achieving **98.52% test accuracy.**

ELIXIR *Link* March 2022

- Created an e-commerce platform using **full stack development** with Flask (Python) for backend and HTML, CSS, and JavaScript for frontend, enabling product browsing, cart functionality, and secure checkout.
- Engineered user authentication, category-based filtering, and CRUD operations with SQLite, boosting **user engagement by 30%** through improved UI/UX.

Certifications

- Associate Cloud Engineer, Google October 2022
- Artificial Intelligence, Verzeo July 2021

Publications

Smart Metering System, IJRESM April 2022

- Published a paper detailing the design and implementation of an IoT-based smart energy meter

Achievements

- Awarded **Best Use of Azure AI Tools** at CSI Hackathon for developing an **Agentic AI** solution April 2025