SUSHRUTH DANIVASA SRIDHAR

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EDUCATION

University of Wisconsin – Milwaukee	September 2023 - May 2025
Master of Science, Computer Science, CGPA: 3.80/4	Milwaukee, WI
Dayananda Sagar Academy of Technology and Management	August 2018 - July 2022
Bachelor of Engineering, Information Science, CGPA: 8.3/10	Karnataka, India

SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C
Web Development: HTML5, CSS3, React.js
Frameworks & Libraries: Django, Flask, REST APIs, FastAPI
Cloud Platforms: Azure, Amazon Web Services (S3, EC2, Lambda), GCP
DevOps & Containerization: Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD Pipelines
Database Technologies: MySQL, PostgreSQL, MongoDB, SQL, NoSQL
Tools & Version Control: Git, Linux, Visual Studio Code, Postman

Work Experience

Software Analyst	August 2022 – July 2023
KPMG	Karnataka, India

- Engineered a responsive internal dashboard using React.js, integrated Flask backend with PostgreSQL, and deployed via Docker and CI/CD pipelines, reducing system downtime by 25%.
- Migrated 10+ business-critical applications to Azure and AWS using Databricks, lowering operational overhead by 15% and resolving data security issues.
- Automated CI/CD pipelines using GitHub Actions and Jenkins, integrating test coverage reports to cut deployment time by 40% and improve release quality through robust software testing.
- Tuned Oracle database queries and indexing strategies for data pipelines, reducing query latency by 20% during peak hours.
- Developed RESTful APIs using FastAPI and PostgreSQL to reduce backend failures and improve performance under high load.
- Containerized microservices with Docker and orchestrated across environments using Kubernetes, aligning DevOps best practices into the software development life cycle (SDLC).
- Resolved release blocking bugs in collaboration with Agile SCRUM teams, reducing rollback incidents by 30%.

Software Developer Intern	March 2022 – May 2022
WIPRO	Karnataka, India

- Implemented reservation and cancellation modules as part of full stack development for a flight booking system using Java and MongoDB, enabling real-time booking updates and reducing transaction errors by 20%.
- Applied Object-Oriented Programming principles to build service layers and data models, improving code modularity by 20%.
- Wrote unit and integration tests using JUnit, increasing test coverage by 25% and supporting stable production ready builds.
- Worked with cross-functional teams in sprints and code reviews to fix integration bugs, reducing deployment defects by 10%.

Projects

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

- Developed a full-stack AI chatbot using Flask, Google Gemini API, and a custom UWM CS dataset for query handling and session management, enabling context-aware responses through LLM prompt engineering and NLP.
- Designed an interactive web interface with HTML, CSS, and JavaScript to handle asynchronous requests, deployed on Azure and tested on 100+ queries with over 95% response accuracy.

Traffic Sign Recognition *GitHub*	December 2024

- Trained a CNN-based deep learning model on the GTSRB dataset with 50,000+ images using Python, TensorFlow, NumPy, and OpenCV to improve model generalization across varying environmental conditions.
- Applied machine learning techniques to architect data preprocessing, augmentation, and evaluation workflows, achieving 98.52% test accuracy and tracking development with Git.

ELIXIR *GitHub*	March 2022

- Created an e-commerce platform with Flask (Python), HTML, CSS, and JavaScript, enabling product browsing, cart functionality, and secure checkout.
- Engineered user authentication, category filtering, and CRUD operations with SQLite, applying data structures and algorithms to streamline filtering and session logic, boosting user engagement by 30% through improved UI/UX.

Certifications

- Azure Developer Associate, Microsoft	June 2025
- Associate Cloud Engineer, Google	October 2022

Achievements

- Awarded Best Use of Azure AI Tools at CSI Hackathon for developing an Agentic AI solution.	April 2025
- **Smart Metering System, IJRESM**: Published paper on implementing an IoT-based smart energy meter.	April 2022