

SUSHRUTH DANIVASA SRIDHAR

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Education

University of Wisconsin – Milwaukee

Master of Science, Computer Science, CGPA: 3.80/4

September 2023 - May 2025

Milwaukee, WI

Dayananda Sagar Academy of Technology and Management

Bachelor of Engineering, Information Science, CGPA: 8.30/10

August 2018 - July 2022

Karnataka, India

Skills

Backend: Python, Java, FastAPI, Flask, REST APIs, Microservices, JWT, Redis

Frontend: React, TypeScript, JavaScript, HTML, CSS

Database: PostgreSQL, MongoDB, MySQL, SQL, NoSQL

Cloud & DevOps: Azure, AWS, GCP, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD

Tools: Git, Linux, Bash (Shell Scripting), Postman, Agile/Scrum

Certification: Azure Developer Associate (AZ-204)

Work Experience

Naviget

June 2025 - Present

Software Engineer

Saratoga, California (Remote)

- Built backend RESTful APIs for authentication, tenant management, and metadata handling using Python and FastAPI route logic with request validation supporting a production system with 95% uptime.
- Implemented asynchronous execution logic in the video rendering pipeline by integrating Redis-backed task queues, reducing API response latency by 35%.
- Automated API test cases to validate request flows, edge cases, and error handling using Postman collections integrated into GitHub Actions for continuous validation.
- Spearheaded media optimization functionality by writing backend rules that dynamically adjusted rendering parameters, reducing processing time by 30%.

KPMG

August 2022 - July 2023

Software Engineer

Karnataka, India

- Developed backend services and data APIs for a real-time financial analytics dashboard by implementing Flask routes and PostgreSQL queries, improving query efficiency by 48%.
- Integrated anomaly detection function into Python APIs by applying AI/ML classification outputs to detect irregular patterns, reducing manual investigation time by 50%.
- Refactored monolithic backend code into microservices by separating authentication, reporting, and data-processing logic.
- Refined API performance by optimizing request handling logic and SQL queries, increasing throughput by 20%.
- Configured 10+ CI/CD deployment workflows using Jenkins to support releases of backend APIs and analytics services during migrations to AWS/Azure.
- Resolved production issues by debugging backend services, reviewing code changes, and collaborating with Agile Scrum teams to reduce post-deployment defects.

WIPRO

March 2022 - May 2022

Software Engineer

Karnataka, India

- Redesigned backend functionality for flight reservation and cancellation systems using Java and MongoDB, reducing booking errors by 20%.
- Improved system stability by 28% by addressing concurrency issues and optimizing MongoDB query execution.
- Programmed service-layer code using OOP principles to improve readability, reuse, and maintainability.

Projects

College Chatbot - AI-Powered Assistant [Live](#)

- Engineered a full-stack AI chatbot by integrating an LLM for request handling, prompt construction, and response processing using Python, Flask, and Google Gemini API to support 950+ users.
- Deployed an interactive frontend with HTML, CSS, and JavaScript on Azure, implementing asynchronous query handling for sub-second latency and 92% response accuracy.

Traffic Sign Recognition [GitHub](#)

- Trained a high-accuracy machine learning model by achieving 98.5% test accuracy with Python, TensorFlow, Pandas, and OpenCV through cross-validation and hyperparameter tuning.
- Strengthened model robustness by adding preprocessing steps, checkpointing logic, and Git version control.

ELIXIR [GitHub](#)

- Created an e-commerce application with Python, Flask routes, SQLite, and UI components featuring secure checkout.
- Enhanced the data layer with optimized algorithms and data structures, increasing search speed and boosting user engagement by 30%.