Saswat Priyadarshan

Software Engineer | Azure Cloud & Distributed Systems | Microservices | DevOps Automation | Agentic AI Applications | MLOps

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WORK EXPERIENCE

Software Engineer
Microsoft

02/2023 - Present   *Raleigh, USA*

Achievements/Tasks

- Led the development and rollout of **Haia** , an AI-powered case management platform, saving hundreds of developer hours quarterly and reducing multi-million-dollar licensing costs.
- Optimized **Azure/Unix agent pools** and containerized infrastructure with Docker, improving resource utilization and reducing pipeline latency by 60%.
- Designed **YAML-based regression workflows** with dynamic job control, boosting throughput and enabling safe termination of long-running jobs.
- Built **cloud-native event-driven workflows** using Azure Service Bus and Event Hub, automating metadata ingestion and eliminating manual routing.
- Developed a monitoring tool to track **resource and license utilization**, ensuring traceability and delivering key metrics and performance indicators across multiple projects.

Software Engineer
Walmart Global Tech

06/2020 - 07/2021   *India*

Achievements/Tasks

- Built and optimized **full-stack applications** to automate incentive calculations for associates, improving accuracy and reducing manual effort.
- Developed **scalable batch processes** that significantly reduced execution time for high-volume compensation workflows.
- Integrated **AI-driven chatbots** using Azure LUIS with Slack and Microsoft Teams to streamline employee support.
- Worked on IBM Message Queues to handle customer data from UK and China markets and efficiently identify any data discrepancies.

Software Engineer
Verizon

07/2018 - 06/2020   *India*

Achievements/Tasks

- Engineered **scalable web applications** serving millions of users by building reusable **REST APIs** , file upload services, and microservices using React, Spring Boot, and MySQL.
- Worked on design and implementation of engineering architecture for enabling 5G coverage across the USA.
- Enhanced **UI responsiveness** with material design and bootstrap, ensuring seamless experiences across diverse devices.
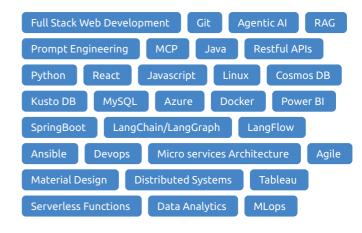
CERTIFICATIONS

Lean Six Sigma White Belt

Deep Learning Specialization

Building Agentic AI Applications with Problem First Approach

SKILLS

Full Stack Web Development · Git · Agentic AI · RAG · Prompt Engineering · MCP · Java · Restful APIs · Python · React · Javascript · Linux · Cosmos DB · Kusto DB · MySQL · Azure · Docker · Power BI · SpringBoot · LangChain/LangGraph · LangFlow · Ansible · Devops · Micro services Architecture · Agile · Material Design · Distributed Systems · Tableau · Serverless Functions · Data Analytics · MLops

PERSONAL PROJECTS

Perplexia (Perplexity Clone)

- Developed **Perplexia** , a deep research agent inspired by Perplexity, leveraging **prompt engineering, RAG, and multi-agent systems** to deliver contextual, traceable insights. Engineered advanced **agentic AI workflows** for multi-step reasoning and knowledge synthesis, enabling accurate, scalable, and explainable research automation.

ChaosAgent

- ChaosAgent is an **Agentic AI–powered chaos engineering tool** that autonomously tests the resilience of **Kubernetes clusters**. Leveraging **natural language** interaction, it orchestrates safe, **context-aware** chaos experiments, coordinates multi-agent workflows, and generates comprehensive, explainable resilience reports.

FIFA 21 Player Analytics

- Implemented classification algorithms like **decision tress, CNN, K-means** to classify soccer players into positions based on their attributes. Selected the best players from our classifications to create a "Dream Team"

Customer Churn Analytics

- I have developed predictive models for predicting customer churn rate in telecom industry. I used **Decision Trees, Random Forests, and AdaBoost algorithms** to build this application.

Tshirt Store

- **Created an online Tshirt selling store application using ReactJs, nodeJs and MongoDB.** Also integrated **Stripe payment gateway** for payment processing. It is a fully responsive web application.

Chit - Chat

- I developed an **android chat application using Flutter and Firebase** with features like group chats, sending emoticons, images, and videos. I used Material UI for a better user experience.

EDUCATION

Master of Computer Science
North Carolina State University

08/2021 - 12/2022   *CGPA - 3.83*

Bachelor of Technology in Information Technology
SRM University - Chennai

07/2014 - 05/2018   *CGPA - 9.3*