ASHWIN SRIDHARAN
Cloud & Devops Engineer

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Summary

A professional adept in engineering tools, programming, and computer science. An enthusiast, hungry to learn and easily adaptable. A driven DevOps engineer and Python developer with a strong record of delivering innovative cloud solutions and streamlining CI/CD processes. Skilled in leading cross-functional teams, optimizing workflows, and enhancing system security. Committed to continuous growth and excellence in the tech industry.

Experience

Johnson Controls
Pune

Developer 1
05/2023 - Present

We specialize in technology-driven solutions for smart buildings, providing expertise in building automation, HVAC systems, security, and energy efficient solutions.

- **Led** and **delivered** multiple **releases** of a **comprehensive CI/CD tool** designed for **Kubernetes** environments, integrating **Tekton** , **Buildpacks ArgoCD** synchronized with **JIRA**.
- Developed a Python application using **Flask** to create a user interface integrating **GitHub, CI/CD tool,** and **Grafana**. Provided real-time visibility into software development processes, enhancing transparency and collaboration across teams.
- Skilled in developing and containerizing applications using **.NET, Python, Java (Maven), Node.je{React and Angular)**.Proficient in managing build processes and ensuring efficient deployment through **containerization** techniques.
- Automated database migrations using **Flyway** with Python and shell scripts, optimizing CI/CD pipelines for seamless integration and deployment.
- Innovated cost-saving measures by migrating **CodeQL** workflows to containers from GitHub runners, optimizing resource utilization and operational efficiency.
- Implemented image security enhancements using **Trivy**, **Finitestate** bolstering container security practices and ensuring compliance with best practices.
- Designed, developed, and streamlined CI/CD processes, enhancing automation and efficiency in software delivery pipelines.
- Expertise in implementing CI/CD workflows using **Jenkins** and GitHub, ensuring robust version control and continuous integration.
- Facilitated **quick onboarding** and seamless production deployments of products, optimizing development lifecycle efficiency.
- Proficient in cloud platforms including **Azure** , **AWS** and **Google Cloud** leveraging cloud services for scalable and resilient infrastructure solutions.
- Profound knowledge in configuration management tools like **Ansible** and infrastructure provisioning using **Terraform**, ensuring consistent and reliable deployments.
- Built a **RAG** bot using **Azure OpenAI** and **Azure Embeddings**, where documents are embedded, stored in a vector database, and retrieved via semantic search.

Virtusa
Chennai

Software Engineering Intern
01/2023 - 05/2023

We provide digital engineering and technology services for companies in the financial services, healthcare, communications, media, entertainment, travel, manufacturing, and technology industries worldwide.

- Gained hands-on experience working with a diverse tech stack. Utilized **Spring Boot** and **Java** for backend development, **AJAX** and **XML** for dynamic data exchange, and **JDBC** for database connectivity. Enhanced front-end functionality using **Angular**, delivering robust and user-friendly applications.

Education

Meenakshi Sundararajan Engineering College
Chennai

Bachelor of Technology , Information Technology │ GPA: **9.28**/ 10
2019 - 2023

I developed a deep passion for technology, excelling in my coursework and actively participating in various tech-driven projects. My dedication and curiosity led me to become the department topper in Information Technology, while staying involved in coding challenges, hackathons, and collaborative tech initiatives. This experience laid the foundation for my expertise and enthusiasm for problem-solving in the tech world.

Indian Institute of Technology Madras
Chennai

Diploma in Data Science and Programming │ GPA: **9** / 10
2020 - 2023

I gained hands-on experience in **data analytics**, **machine learning**, and advanced programming techniques. The program deepened my understanding of data-driven decision-making and equipped me with the skills to solve complex real-world problems through analytical thinking and programming excellence. This qualification has further solidified my foundation in data science, enhancing my technical capabilities.

Skills

Cloud & Devops:

- Kubernetes • Tekton • Jenkins • Azure • AWS • GCP • Docker • Buildpacks • Terraform • ArgoCD
- Python • Datadog • Grafana • Redpanda • Confluent(Kafka) • Prometheus • Ansible • Puppet • Chef

Machine Learning & GENAI:

- Deep Learning • Word Embeddings • Agents • Transformers • RAG(Retrieval Augmented Generation) • Langchain

Certifications

- Cloud Associate Engineer(Google)
- AMCAT Software Engineer(Aspiring Minds, AMCAT)
- JavaScript (Basic)Certificate(HackerRank)
- Java (Basic) Certificate(Hackerrank)
- SQL(Basic) Certificate (Hackerrank)
- Problem Solving (Basic) Certificate(Hackerrank)

Projects

Faculty and Library Management Systems

Chennai
2019

Developed two database management systems: one for efficiently storing and managing teacher records, including subject expertise and availability, and another for a college library to track book inventory, user borrowing history, and due dates. Both systems leveraged SQL for data storage and retrieval, streamlining operations and improving accessibility.

Restaurant Visit Prediction Using Machine Learning (Kaggle Competition)

Chennai
2020

Participated in a Kaggle competition to predict restaurant visits based on various factors like distance, offers, and customer preferences. Used machine learning models to analyze patterns and draw insights from the dataset.

Telehealth Application with Novel Image Encryption Algorithm (Capstone Project)

Chennai
2023

Developed a telehealth platform using a unique image encryption algorithm to securely transmit sensitive medical images. The app, hosted on AWS using services like Elastic Beanstalk, EC2, RDS, and S3, connects patients with healthcare providers for remote consultations. Built with Django (backend) and React JS (frontend), the platform enables secure image sharing, appointment scheduling, and fosters a safe, collaborative healthcare environment focused on privacy and security.