**SATHWIKA SRIRAM**

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DevOps Engineer with about 5 years of experience spanning software development, cloud infrastructure, and CI/CD automation. Skilled in Azure, Kubernetes, Terraform, and scripting (Python, Bash, PowerShell) to deliver secure, scalable, and high-availability solutions. Strong foundation in Java-based application development, enabling seamless Dev–Ops collaboration and faster, reliable releases. Currently expanding expertise in Generative AI and OpenAI API integration, exploring AI-driven automation and intelligent solutions to enhance operational efficiency.

# **WORK EXPERIENCE**

**DevOps Engineer | Siemens Aug 2022 - Feb 2025**

* Designed, automated, and maintained infrastructure on Azure, leveraging services including AKS, VMs, Blob Storage, Container Registry, SQL Databases, and Azure AD, along with configuring VNETs, NSGs, and VPN Gateways for secure cloud networking.
* Built and managed CI/CD pipelines in Azure DevOps, automating deployments, validations, and monitoring to improve release consistency.
* Developed internal Python and Bash tools for log parsing, CI/CD validation, and service monitoring, improving pipeline reliability and reducing manual intervention.
* Provisioned and managed Kubernetes clusters using Helm charts for reusable deployments, resulting in a 30% increase in team productivity.
* Scripted post-deployment validation and system benchmarking checks to ensure integrity, latency, and compliance standards.
* Designed and automated ETL pipelines using Azure Data Factory (ADF) and processed data streams to generate actionable insights for business and operational use.
* Experience configuring Microsoft Entra ID (Azure AD) and managing access policies using Privileged Identity Management (PIM) for secure role assignments.
* Configured monitoring alerts, dashboards, and proactive health checks to ensure uptime and minimize incidents.
* Secured infrastructure by identifying and remediating CVE, ensuring compliance with Microsoft security standards.
* Authored detailed documentation including system architecture diagrams, deployment guides, and internal operational procedures.
* Automated system health checks, log ingestion, and issue diagnostics using PowerShell, minimizing support overhead.

**DevOps Engineer | Cognizant, Chennai, India Oct 2020 - Nov 2021**

* Migrated on-prem microservices to Azure, leveraging Terraform for Infrastructure-as-Code (IaC), Ansible for configuration management, ensuring scalability, repeatability, and seamless cloud integration.
* Automated deployment and configuration pipelines using Jenkins, Groovy, Python, and Bash, improving release consistency across Dev, UAT, and Prod environments.
* Managed and maintained Kubernetes clusters on AKS, using Helm for application deployments and Azure Monitor for alerting and health checks.
* Maintained secure, high-availability Linux infrastructure for containerized applications using AKS and Kubernetes.
* Integrated Whitesource (Mend) SCA/SAST tools into CI/CD pipelines for open-source security governance, reducing CVE exposure.
* Expertise in Maven, ANT, and NPM, orchestrating artifact creation (JAR, WAR) to streamline build workflows, enhance reliability, and improve system efficiency in high demand computing environments.
* Onboarded and managed SonarQube and Artifactory (X-ray, remote/virtual repos) to enforce code quality and artifact management policies.
* Participated in GitOps transformation by migrating version control and CI/CD processes from Bitbucket to GitLab/GitHub (PoC).

**Software Engineer | Cognizant, Chennai, India Jul 2019 - Sept 2020**

* Developed scalable web applications using Java/J2EE, Spring MVC, JSP, and Servlets across enterprise platforms.
* Collaborated with product owners and QA to review API specifications, resolve edge cases, and meet business requirements.
* Created Python and Shell scripts to automate diagnostic data gathering for servers during major incidents across data centers with over 150 servers. This automation compiled diagnostic data into a concise PDF report, allowing subject matter experts to quickly prioritize and address critical issues, streamlining the incident response process.
* Supported incident response and diagnostics for infrastructure issues, providing analytical insights into critical alerts and service availability.
* Took ownership of core modules during release phases, delivering on-time fixes and optimizing performance by up to 30%.
* Implemented dynamic, data-driven front-end features using AngularJS, AJAX, and JSON, improving user interactivity.
* Conducted thorough testing and validation of REST APIs using Postman, ensuring seamless backend integration.
* Managed version control and release processes with SVN, packaging applications with Maven, and deploying on IBM WebSphere.

# **TECHNICAL SKILLS**

* **Languages:** Java, Python, JavaScript, SQL, HTML, CSS
* **Frameworks/Technologies:** Spring MVC, Hibernate, JSP, Servlets, Angular, AJAX, REST, SOAP
* **Cloud Platforms:** Microsoft Azure (AKS, Azure Functions, App Services, Data Factory, Blob Storage, Container Registry, Microsoft Entra ID / Azure AD, PIM)
* **Infrastructure as Code:** Terraform, ARM Templates, Ansible
* **Containerization & Orchestration:** Docker, Kubernetes, Azure Kubernetes Service (AKS), Helm
* **CI/CD & Build Tools: Jenkins**, GitLab CI/CD, Azure DevOps, GitHub Actions, Maven, Ant, NPM, NuGet, MSBuild
* **Databases**: MySQL
* **AI/ML Tools & APIs:** OpenAI API, Prompt Engineering (Beginner), JSON Parsing (Jackson/Gson)
* **Testing/Monitoring:** JUnit, Log4j

# **ACADEMIC & LEARNING PROJECTS**

**Sentiment Analyzer using OpenAI (Java + REST API) – LEARNING PROJECT**

* Developed a Java-based console application to analyze user input sentiment using OpenAI's GPT API. Built REST integration logic using Java HTTP Client and parsed JSON responses to classify text as Positive, Negative, or Neutral. Explored basic prompt engineering and AI-powered text classification.

**Clinic Appointment Scheduling System | Java, Spring Boot, MySQL, REST API – ACADEMIC**

* Developed Built a backend system to manage doctor appointments and patient records using Spring Boot and MySQL. Designed RESTful APIs for booking, availability checks, and CRUD operations, following MVC architecture and modular design principles for scalability.

# **EDUCATION**

Bachelors Information Technology | JNTUH College of Engineering, Hyderabad, India Aug 2015 - May 2019