


# SAI TEJA IRRINKI

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*DevOps Engineer*

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## Links

 <https://softwarelife.github.io>

 <https://saitejairrinki.medium.com>

 <https://github.com/saitejairrinki/>

 <https://www.linkedin.com/in/sai-teja-irrinki-1959051a0/>

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## PROFESSIONAL SUMMARY

This is SAITEJA IRRINKI working at **Zelarsoft** as a DevOps Engineer. Having experience in Configuration Management covering Build Management, Version Control, Code Quality, Environment Administration, Defect-Tracking, Release-Management, Continuous-Integration, Continuous-Delivery, Cloud Computing, Container Orchestration, and Scripting for Automation, Static Web Development, Orchestration Technologies, and Operating Systems - Linux, Windows.

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## TECHNICAL SKILLS

-  Operating Systems – Linux, Windows
-  Cloud Platforms - AWS, AZURE, GCP Basics
-  Containerization Tools – Docker, Kubernetes
-  Virtualization – Vagrant, Virtual Box, VMware ESXi
-  Automation – Shell Scripting, Ansible, PowerShell
-  Infrastructure Provisioning – Cloud Formation, Terraform
-  Version Control Tool – GIT
-  Build Software – Maven
-  CI/CD – Jenkins, Azure DevOps
-  Web/App Server – Tomcat
-  Static Web Development – MkDocs
-  Ticketing Tool – Freshdesk

## WORK EXPERIENCE

- ✚ Experience in IT area comprising configuration management, Deploy, CI/CD pipeline, Cloud, and DevOps methodologies.
  - ✚ Expertise in troubleshooting the problems generated while building and deploying.
  - ✚ Working Experience on **Git**, **GitHub**, and **Jenkins**. Debugging issues if there is any failure in broken Jenkins build and maintaining Jenkins build pipeline.
  - ✚ Working Experience in **Azure Cloud** and **Azure DevOps**
  - ✚ Experienced in Branching, Merging, and Tagging concepts in Version Control tools like **GIT**.
  - ✚ Proficient in developing **Continuous Integration / Continuous Delivery** pipelines.
  - ✚ Experience with containerization tools like **Docker**.
  - ✚ Experience on build tools and packaging the source code using **Maven**.
  - ✚ Scheduled builds overnight to support development needs using **Jenkins**, **Git**, and **Maven**.
  - ✚ Experience in integrating Unit Tests and Code Quality Analysis Tools like **SonarQube**.
  - ✚ Experience in using **Nexus** Repository Manager and **S3** for Storing **Artifacts**.
  - ✚ Experience in orchestration tools like **Kubernetes** using **KOPS**, **Kubeadm**, **K3S**, **Minikube**, etc.
  - ✚ Experience with services **IAM**, **Compute Engine**, **Kubernetes Engine**, and **Storage Buckets**.
  - ✚ Experience with Amazon Web services Creating, configuring, and Managing **EC2**, **Storage**, **IAM**, **S3**, **VPC**, **ELB**, **Cloud Watch**, **EFS**, **Route53**, **Elastic Cache**, **Amazon MQ**, and Other services.
  - ✚ Experience in using **Apache Tomcat** servers for deployments.
  - ✚ Working experience on operating systems like Linux, and Windows.
  - ✚ Performed continuous Build and Deployments to multiple **DEV**, **QA**, **Pre-PROD**, and **PROD** Environments.
  - ✚ Working Experience in **Shell Scripting**, **PowerShell**, **AWS Cloud Formation & Ansible**.
  - ✚ Expertise in Static- Web-Documentation using **MkDocs**.
  - ✚ Experience with **STYRA** Declarative Authorization Service (DAS).& **OPA** – Open Policy Agent.
  - ✚ Ability to learn new skills quickly.
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## EDUCATION

- ✚ B Tech – Electrical and Electronics Engineering – 2020
  - ✚ Intermediate – MPC – 2016
  - ✚ 10<sup>th</sup> class – SSC – 2014
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## PROFESSIONAL EXPERIENCE

- ✚ Working as DevOps Engineer with **Zelarsoft Pvt Ltd** from March 2022 to till date.
- ✚ Worked as DevOps Engineer with **Visualpath Pvt Ltd** from March 2021 to February 2022.
- ✚ Worked at **Visualpath** from Nov 2020 to Feb 2021 as an **Intern** in DevOps.






















## PROJECT-1

**Name:** Celito Drug Design Platform (CDDP)

**Client:** Celito Tech

**Tools:** Azure Cloud Services, Azure DevOps, PowerShell, Power Apps, Windows OS.

### **Roles and Responsibilities:**

-  Worked with team to Develop Application Requirements.
-  Created a **Workflow & Branching Strategy** with the Requirements.
-  Setup/managed **Azure Repos** and Branching Strategy.
-  Established a Build/Release pipeline with automated build and Continuous-Integration.
-  Automated the provisioning of **Powerapps** Environments (Dev, Staging, Pre-Prod, Prod) using **Azure DevOps** Tasks and Azure resources (**App Registration, Blob, Back-up Center, Cosmos DB, Key Vault, Azure VMs**) using PowerShell and Templates.
-  Validated Azure Resources during provisioning & pre-configuration by writing a **PowerShell Script**.
-  Monitored Automated build & Continuous-Integration process to drive Build/Release **Failure Resolution**.
-  Automated and Implemented system backup and recovery procedures.
-  Worked with **Software Development and Testing-Team** members to design and develop robust solutions to meet client requirements for **functionality, scalability, and performance**.
-  **Documented** project design for reference and future use cases
-  Involved in CI/CD process and integrated **SonarQube** with **Azure DevOps** for Quality-Analysis.
-  Have hands-on experience in writing **PowerShell** when needed to automate jobs and tasks in the pipeline.
-  Experience deploying infrastructure resources utilizing **ARM** templates.
-  Maintained Source code Repositories
-  Implemented high availability with Azure classic and **Azure Resource Manager (ARM)** deployment models.
-  Experience delivering applications in **Azure**.
-  Ability to Document deployment processes and transfer knowledge to other operational team members.
-  Ensure all cloud deployments follow established workflows.
-  Supports Development and production systems and deployments.

## PROJECT-2

**Name:** Techbricks Edu

**Client:** Internal

**Tools:** AWS, Jenkins, Docker, Kubernetes, SonarQube, Git, GitHub, Maven, Nexus, Linux.

### **Roles and Responsibilities:**

- ✚ Involved in CI/CD process and integrated GIT, Nexus, SonarQube, and Maven Artifacts build with **Jenkins**
- ✚ Creating **Docker Images** and using the Docker image to deploy over (Kubernetes).
- ✚ Creating and maintaining **namespaces, config maps, secrets, and Services** in Kubernetes.
- ✚ Experience with container-based deployments using Docker, working with **Docker images, Docker Hub** and **Docker-registries**, and **Kubernetes**.
- ✚ Experience in working on AWS and its services **like IAM, VPC, EC2, EBS, S3, ELB, Auto Scaling, Route 53, Cloud Front, Cloud Watch, EFS**, and Others.
- ✚ Experienced in Cloud automation using **AWS Cloud Formation** templates to create customized **VPC, subnets, NAT, EC2 instances, ELB**, and **Security groups**.
- ✚ Experienced in creating complex **IAM policies, Roles**, and user management for delegated access within AWS.
- ✚ Identify, troubleshoot and resolve issues related to the build and deploy process.
- ✚ For Securable purposes store the Docker images in the Docker registry.

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## DEVOPS ENGINEER ROLES

### Cloud Migration using Lift and Shift Strategy on AWS Services using

- ✚ VPC, Ec2, S3, Application Load Balancer, Route53
- ✚ IAM to give secure access to AWS account using MFA
- ✚ Tightly controlled Security Group for firewall rules of EC2
- ✚ EBS volume for storage on Ec2, Snapshot for Backups of EBS
- ✚ Auto scaling for Automatic scaling of Ec2 instance based on CPU usage

### Modernization on AWS Cloud Services used

- ✚ Beanstalk for PAAS for Tomcat Web App
- ✚ RDS for MySQL Database
- ✚ Object storage S3 to store and retrieve files

- ✚ Route53 for Private and Public Hosted zones/Records
- ✚ Amazon MQ for fully managed RabbitMQ,
- ✚ ElastiCache for the in-memory data stored in the cloud
- ✚ Monitoring with Cloud watch, Grafana
- ✚ Notification using SNS

### Continuous Delivery of Java Web Application

- ✚ CI/CD Pipeline using Jenkins, Git, Maven, Nexus and SonarQube
- ✚ Deploying Artifact to Beanstalk from Jenkins
- ✚ Jenkins Pipeline As A Code for CI/CD

### Configuration Management using Ansible

- ✚ Ansible AdHoc commands to execute remote tasks
- ✚ Ansible playbook for Service/Server Deployments
- ✚ Ansible Roles for modular and reusable automation framework

### Docker Containers

- ✚ Building customized Docker images using Dockerfile.
- ✚ Docker-compose to run MultiContainer Docker Application.

### Infrastructure Provisioning Using

- ✚ Ansible
- ✚ Cloud formation
- ✚ Terraform

### Kubernetes

- ✚ Creating Production grade K8s cluster using Kops & Kubeadm.
- ✚ Hosting Containerized Application on K8s cluster
- ✚ Pod, Service, Replication Controller, Deployment, Secrets, Replicaset.

### Azure Cloud & Azure DevOps

- ✚ Automated the provisioning of Azure resources (App Registration, Blob, Back-up Center, Cosmos DB, Key Vault, Azure VMs) using PowerShell and Templates.
- ✚ Created a Build/Release pipeline with automated build and Continuous-Integration using Azure DevOps.

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## ≡ DECLARATION

I hereby affirm that, to the best of my knowledge, the information provided above is accurate.

Place: Hyderabad

SAI TEJA IRRINKI