

# SHIV PUJAN MAURYA

■ New Delhi, DL, 110030 ■ (+91) 959 805 8586  
■ mauryashiv.11@gmail.com ■ skype: live:mauryashiv.11

## PROFESSIONAL SUMMARY

DevOps Specialist and IOT Engineer with around 4+ years of hands-on experience Orchestrating , automating, and optimising deployments in cloud environment, leveraging configuration management, CI/CD, and DevOps processes.

## HIGHLIGHTS

- Experience in designing complete serverless and fully containerized infrastructure using aws services like Cognito, Kines, DynamoDb, IAM, Lambda, SQS, SNS, IOT, Elasticsearch, Route53, ACM, API-Gateway, S3, Codebuild, Codecommit, Codepipeline, Cloudformation, VPC and docker , kubernetes etc.
- Orchestrate new project infrastructure from scratch , Onboard new IOT products and integrate them with existing perience in migrating and integrating IOT products from partner to Pentair platform
- Running over the air (OTA) updates on existing IOT devices
- Experience in provisioning & managing workload in various cloud platforms like AWS, Digital Ocean, Heart Internet, Cherry Servers etc.
- Good in automating & writing infrastructure as code using AWS cloudformation.
- Good with using DNS services like GoDaddy, Route 53, Namecheap etc .
- Experience running production workload on docker and microservices.
- Experience with taking requirement designing solutions and provisioning infrastructure in various cloud platforms.
- Experience using automation tools like jenkins & various plugins, codedeploy,
- Git for build and deployment.
- Experience using frontend security tools like Cloudflare,SSL, Nginx hardening
- Experience handling multiple projects & deciding priority based working and issue addressing.
- Experience with capacity planning, backup, rollback & minimal downtime and disaster recovery.

## PROJECTS

### Pentair (IOT):

- Working on more than 15+ IOT products ranging from residential to commercial solutions like
- Arrayent Migration to AWS (<https://www.youtube.com/watch?v=Q6a6oTGSWRM>)
- Connected Salt Sensor (<https://www.pentair.com/en-us/products/residential/water-quality/water-quality-accessories/connected-salt-level-sensor.html>)
- Intelli Connect (<https://www.pentair.com/en/landing-pages/mylink2o/pentair-intelliconnect.html>)
- Chem Check (<https://www.pentair.com/en/products/pool-spa-equipment/pool-automation/chemcheck-water-quality-monitoring-system.html>)
- Intellisync (<https://www.pentair.com/en/products/pool-spa-equipment/pool-automation/intellisync.html>)
- Intelli Center (<https://www.pentair.com/en-us/products/residential/pool-spa-equipment/pool-automation/intellicenter-control-system.html>)
- Prowler ([https://www.pentair.com/en-us/products/residential/pool-spa-equipment/pool-cleaners/kreepy\\_krauly\\_prowler930ingroundpoolcleaner.html](https://www.pentair.com/en-us/products/residential/pool-spa-equipment/pool-cleaners/kreepy_krauly_prowler930ingroundpoolcleaner.html))
- Inteli Flow3 ([https://www.pentair.com/en-us/products/residential/pool-spa-equipment/pool-pumps/intelliflo\\_variablespeedhighperformancepump.html](https://www.pentair.com/en-us/products/residential/pool-spa-equipment/pool-pumps/intelliflo_variablespeedhighperformancepump.html))

## Previous Projects:

- Epaylater (epaylater.in)
- Belfrics (<https://www.belfrics.io>)
- Belrium (<https://www.belrium.io>)
- Greenshilling (<https://www.greenshilling.com>)
- Australian BitCoin, Daxxcoin, Relay Stream
- MyXavier Coin, Pesamill, Peepin
- Team Computers ERP
- OrientBell Limited

## TECHNICAL SKILLS

- **Cloud** : AWS, Digital Ocean, Cherry Servers, Linode, Heart Servers etc.
  - **Web Servers** : Apache, Nginx
  - **Database** : Mysql, MongoDB, AWS Dynamodb etc.
  - **CI/ CD** : Jenkins, Codebuild, Codedeploy, Codepipeline, Bitrise
  - **Version Control** : Git, AWS Codecommit
  - **IOT** : AWS IOT
  - **Logging & Alerting** : NewRelic, Dynatrace, Nagios, Cloudwatch, ELK.
  - **Planning & Execution** : Jira
  - **DNS** : GoDaddy, Route53, Name Cheap
  - **Traffic Security** : Cloudflare, AWS WAF
  - **Ticketing** : Jira Service Desk, Freshdesk etc
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- **Compute** : AWS EC2, Lambda
  - **Orchestration** : Docker, Kubernetes
  - **Automation** : Python, Bash
  - **Infrastructure as Code** : aws cloudformation, Ansible, AWX
  - **Other AWS Services** : Cognito, Kinesis, IAM, SQS, SNS, Elasticsearch Route53, ACM, API-Gateway, S3, VPC, Cloudfront, VPC Peering, Proton etc.

## CERTIFICATIONS

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|---|----------------------|
| • Certified Kubernetes Administrator, 2020            | CKA-2000-005436-0100 |
| • AWS Certified DevOps engineer - Professional, 2019  | 3TFR65N1K14QQF9F     |
| • Safe Certified Practitioner - SAFe 5, 2020,         | 90837473-5388        |
| • RedHat Certified Engineer - RHEL 7 2017,            | 170-009-179          |
| • RedHat Certified System Administrator - RHEL 7 2017 | 170-009-179          |

## WORK EXPERIENCE

### **Sr. Project Engineer - DevOps** 05/2019 to Present

Pentair Water India Pvt Ltd., Noida Uttar Pradesh

#### **Role & Responsibilities:**

- Work as a DevOps team member of global DevOps team located around many offices in USA & UK.
- Design and implement multi region, multi cloud product infrastructure for residential and commercial products.
- On board new IOT products and integrate them with existing ones.
- Automate everything with infrastructure-as-code with different tools as and where they fit.
- Manage production workload running on Kubernetes, Docker and Serverless technologies.
- Design architecture using Kubernetes and various AWS services like IOT, Kinesis, Cognito, API-Gateway, S3, Cloudfront, DynamoDB, Elastic-Search, Lambda, IAM etc.
- Troubleshooting complex production issues arising in IOT platform ranging from IOT device to cloud infrastructure.
- Integrate many tools to monitor large distributed production workload.
- Integrating the projects to QA tools like Sonarqube, Newman and APM tools like Dynatrace, NewRelic etc.
- Actively work on cloud cost optimisation with new services and tools.
- Actively review and modify the cloud architecture with latest technologies according to product requirements.
- Constantly work on many Proof of concept projects to test new tools and technologies.
- Migrating products from partner IOT platforms to Pentair.
- Integrating applications between Pentair and Partners hosted worldwide.
- Actively involved in full IOT product life cycle i.e design, develop, testing, launch.
- Have worked on many state of the art smart IOT products.
- Take care deployments in various environments like DEV, QA, PUAT, UAT, PST, PROD.
- Bridge the gaps in AWS offered services and IOT architecture requirements by using Python.
- Worked on 15+ IOT products internally.
- Maintain and update CI/CD flow for all products.

### **Jr. DevOps Engineer** 11/2018 to 05/2019

Seance inc., Gurgaon, Haryana

#### **Role & Responsibilities:**

- Worked as DevOps and cloud solutions specialist at ePayLater (epaylater.in) .
- Designing and deploying infrastructure as code as per requirements.
- Automating all the deployments with cloudformation, Jenkins .
- Designing cloudformation templates with nested stacks for quick disaster recovery.
- Making infrastructure compliant to various ISO standards for the financial firm.
- Taking security as primary concern and safeguarding cloud infrastructure with various tools and techniques

### **Associate Consultant DevOps** 05/2017 to 11/2018

Oodles Technologies Pvt Ltd, Gurgaon, Haryana

#### **Role & Responsibilities:**

- Architecting and deploying production environments on cloud platforms with speciality on AWS.
- Handling cryptocurrency projects including architecting, setup and security.
- Infrastructure designing using VPC, SG, IAM, ELB, Cloudformation, Cloudwatch, Glacier, IAM, RDS, S3, SNS etc.
- Working with CI and CD methodologies using Jenkins and AWS codedeploy, Deployment Pipeline.
- Installed and configured GIT and communicated with the repositories in GITHUB.
- Developed strategies and supported tools to create an efficient automated integration and release process using Jenkins.
- Troubleshoot the issues raised in continuous integration and deployment chain.
- Performed database MySQL queries to address connectivity and integration activities.
- Developed Python and shell scripts for automation of the build and release process.
- Experience with launching and configuring production class environments using Docker for microservices.

TRAINEE 03/2016 to 10/2016

Team Computers Pvt Ltd, Delhi, Delhi (on payroll of TeamLease)

#### Roles & Responsibilities:

- Organizing & mapping of the process in Navision Software.
- Create new Tables, Design Forms and Reports as per requirement.
- Modify existing objects for flow business process.
- Write C/AL Code in different objects for project requirement.
- Migrating projects to NAV 2016 from NAV 2009 and NAV 2013.
- Deploying ERP solutions in AWS and local infrastructure.
- Worked on projects of Orient Bell Ltd. and Team Computers.

#### ACCOMPLISHMENTS

- Honoured with Star Performer for Q4 2019 for excellence in DevOps and IOT.
- Appreciated for delivering projects from scratch to production in a time defined manner.

#### EDUCATION

- **Graduation:** Computer Science Engineering, 2015 , Integral University Lucknow (U.P) with 76.4%
- **Intermediate:** PCM, 2010 Rani Laxmi Bai SSS - Lucknow (U.P) 61.2%
- **High School :** Science ,2008 G I College - Sultanpur (U.P) with 66.5 %

#### PERSONAL DETAILS

- Permanent Address : H.N. 19/126 , Sector-19, Indira Nagar Lucknow 226016
  - Current Address : H.N. 514 Saidulajab , Near Saket Metro Station New Delhi 110030
  - DOB : 15-June, 1993
  - Languages : English, Hindi
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