# PRIYANSHU SHRIVASTAVA

## AWS Engineer & Full-Stack Web Developer

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## EXPERIENCE

AWS Engineer
**Advent Software Pvt. Ltd.**
📅 August 2017 – Present     📍 Pune, India

- Worked on architecture analysis and applying best practices for deployment of infrastructure on AWS.

- Worked on security analysis and network hardening in VPC using NACL, Security Groups through least privilege methodology.

- Worked on building a user permission policy mapping for accessing the AWS services through power user level methodology and integrated the access with active directory

- Implemented a 2-tier and 3-tier application infrastructure architecture on AWS involving autoscaling for application servers, elastic load balancer (network and application depending upon the health check use case).

- Setup OpenVPN server to access the private EC2 instances over VPN connection.

- Automated creation of 3-tier application infrastructure resources using terraform templates, and Jenkins pipeline.

- Built infrastructural solution for a client on GCP using the best practices.

- Created a matrix to replicate the infrastructure architecture from AWS to GCP to incorporate hybrid cloud model.

- Worked on creating Docker files and docker-compose file for the application to build the docker images and push them to ECR.

- Set up Kubernetes cluster and deployed the application docker image to k8s cluster. Set up load balancer, node ports and services for the application. Also enabled event based autoscaling of the application containers.

- Set up CI-CD pipeline for deployment of application for the entire lifecycle of all environments (development, staging and production) involving building of artifacts, unit testing and integration testing of the application, and deployment of the application.

- Set up Sensu server and client to create monitoring events for infrastructure resources and scale the infrastructure based on the analyzed data using graphite and graphana.

- Built various dashboards on graphana to analyze the system resources and troubleshoot for any issues identified by monitoring of resources.

- Created lifecycle policies in S3 to propagate data to Standard-IA to Glacier and retrieved the same from Glacier to S3.

- Generated custom OpenSSL certificates for enabling SSL connectivity for a domain and uploaded it to AWS Certificate Manager to use it with elastic load balancer.

- Setup a branching strategy to isolate the work at various cycles of development lifecycle, i.e. development, testing and production.

- Built CI-CD pipeline for all environments using AWS Code Commit, AWS Code Build, AWS Code Deploy and AWS Code Pipeline for continuous deployment.

- The deployment to the environments are done after the unit and integration tests are passed through the build phase.

- Environment related configurations are applied to the application using configuration mapping files stored in an S3 location.

- AWS Security features such as SSL binding through ACM and ALB, security groups to restrict the admin access to a set of CIDR.

- Pushed application logs to S3 and AWS Cloud Watch for application logging and monitoring.

- The git repository had 3 branches, development, testing and master (production) mapped to respective AWS environment settings including RDS endpoint.

- The environment infrastructure consists of an Autoscaling group in the private subnet with an internet facing load balancer, the autoscaling group instances can access the RDS instances, being in the same private subnet.

- The developers push their code on the development branch and is merged into testing branch through a pull request.

- The respective environment's Jenkins job is triggered, and the code is deployed to in blue-green deployment pattern.

- Once the testing is complete, the code is merged into master and is deployed on production.

Web Application Developer
**Freelancer**
📅 August 2015 – June 2017 📍 Pune, India

- Developed Created an ecommerce Web Application for a fashion brand using Python Django framework.

- Designed the UX/UI features along with the REST APIs to interact with the web application dynamically.

Intern
**Industrial Training Exposure**
Organization: Western Central Railway
Tenure:           30days.
Description:   Railway Signaling Used to Control and Railway Traffic Safety Application

## PROFESSIONAL PROFICIENCY

**Programming Languages:**
Python (Django), JAVASCRIPT (TypeScript), Linux, Shell Scripting, JAVA, C
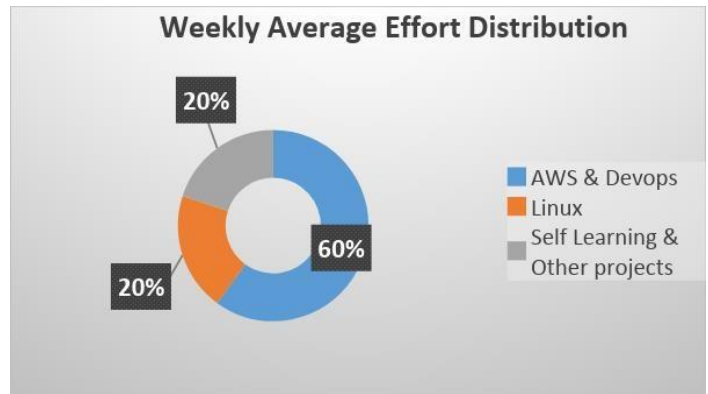
**Web Development:**
Javascript, Jquery, HTML, CSS, Bootstrap, PHP, JSP, Angular JS, Node JS.

**Database Development:**
MongoDB, MySQL, DataStage (ETL Tool).

**DevOps Tools:**
AWS, Jenkins, Git, Docker, Kubernetes, Terraform.



Weekly Average Effort Distribution

- AWS & Devops — 60%
- Linux — 20%
- Self Learning & Other projects — 20%

## OBJECTIVE

*"I want a highly rewarding career where I can use my skills and knowledge towards the growth of the company and my team members."*

## MAJOR AND MINOR PROJECTS

- Gesture control wheel chair
- Image processing in matlab

## EDUCATION

JUNE 2015
B.E. Electronics and Communications Engineering
Global Nature Care Sangthan College Institute of Technology, Jabalpur

CGPA: 6.68

MARCH 2011
12th State Board
Spring Day High School, Jabalpur

Percentage: 69%

## DECLARATION

I vouch the authenticity of the above-mentioned information. Given an opportunity, I promise to put my sincere efforts to rise to your expectations and become an asset to your esteemed organization.

Priyanshu Shrivastava