

# HARSHVARDHAN SINGH

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## OBJECTIVE

**DevOps Engineer** with a foundation in **software engineering**, seeking to leverage expertise in **automation, cloud management**, and **CI/CD** processes to enhance **operational efficiency** and **system reliability**.

## EDUCATION

**B. Tech in Computer Science**, DIT University, Dehradun

2018-2022

Relevant Coursework: **Data Structure and Algorithms, DBMS, Computer Networks, OS, Linux.**

CGPA- 6.69

## SKILLS

- **DevOps Tools:** Proficient in **Terraform, Ansible, Docker, Kubernetes, AWS** and **Jenkins** for CI/CD automation and infrastructure management.
- **Cloud Platforms:** Experience with **AWS** services like **VPC, EC2, S3, RDS, and IAM** for cloud infrastructure management.
- **Programming Languages:** Proficient in **Python, JavaScript**, and **Java**, with a strong understanding of software development.
- **Web Development:** Experience with front-end and back-end technologies, **HTML, CSS, JAVASCRIPT** including and databases such as **MySQL** and **MongoDB**.
- **Version Control:** Familiarity with **Git, GitHub-Actions** for version control & collaboration in **Agile development** environments.
- **Continuous Learning:** Demonstrated ability to learn quickly and adapt to new technologies and environments, with a passion for continuous improvement.

## EXPERIENCE

**Associate Software Engineer**

Sept 2022 – May 2023

EY INDIA LLP

Kolkata, India

- Developed and maintained **RESTful APIs** using **ASP.NET Web API**, enabling seamless **integration** between frontend and backend systems.
- Developed multiple Asp.net Web API for continuous flow of data between client and server
- Implemented **JWT Token authentication** and **basic authentication** for user authentications to allow only authenticated users can access the data.
- Worked on **natural language processing** like **conversational AI chatbots (Kore.ai)** and delivered end-to-end general conversational solutions integrated this with **Microsoft Azure cloud service**.
- Collaborated with cross-functional teams to **design, develop**, and **deploy** web applications using **ASP.NET, C#, and SQL**.

## PROJECTS AND DEVOPS EXPERIENCE

- **EC2 & VPC infrastructure with Terraform:**
  - *Created & managed AWS infrastructures*, like EC2 instances, VPCs, subnets, and security groups, using Terraform.
  - *Created 20+ AWS resources- EC2, VPCs, running ubuntu operating system, enabled apache2 server* using user data.
- **Docker Images and Containers:**
  - *Developed Docker files* to create custom **Docker images** for various applications.
  - *Deployed and managed containers* using Docker, streamlining the development, and testing processes. “Pushed **Docker Images** from local repository to **Docker Hub** repository” using Docker Terminal commands.
- **Kubernetes clusters:**
  - *Used Oracle VM Virtual Box* creating a **virtual machine** for isolated environment using **MiniKube** & using its **Kubectrl** service to create a **K8s cluster**. MiniKube build a **single-node K8s cluster** include (**API server, etcd, kubelet & kube-proxy**).
  - **Developed** a backend **Express http server**, added **Dockerfile** to containerize the application using **node.js** and deploy it on Kubernetes clusters using Minikube.