

# VIGHNESH PATIL

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## Professional Summary

Aspiring DevOps Engineer experienced with tools like Kubernetes, Terraform, GitHub Actions, and AWS, with a focus on automating CI/CD pipelines, managing microservices, and designing scalable, secure cloud-native systems.

## Technical Skills

**Languages:** Python , SQL

**Developer Tools:** VS Code, PyCharm, AWS Cloud

**Technologies/Frameworks:** Linux, GitHub, Docker, Kubernetes

**CourseWork:** Object-Oriented Programming, Linear Data Structure and Algorithms, Operating System, DBMS

## Education

**G H Rasoni College of Engineering and Management**

*Bachelor of Technology in Computer Science (Grade-71.3%)*

**Aug 2021 – July 2025**

*Pune, Maharashtra*

## Projects

### Video Converter: AWS Microservices Architecture

- \* **Developed a microservices-based** video conversion application that converts MP4 files to MP3, improving media processing efficiency by **30%**
- \* **Designed and implemented** three core microservices: **Authentication**, **Video Conversion**, and **Notification** using **Python**.
- \* **Deployed the solution** on **AWS EKS**, ensuring **high availability and scalability**.
- \* Employed **RabbitMQ** for asynchronous message queuing, enhancing inter-service communication reliability by **40%**. **Integrated PostgreSQL** for structured data and **MongoDB** for flexible document storage.
- \* **Tools & Technologies:** AWS (EKS, EC2, S3, RDS, IAM), Kubernetes, Docker, RabbitMQ, PostgreSQL, MongoDB, Python.

### DevSecOps CI/CD Pipeline Implementation

- \* Built a secure **CI/CD pipeline** using **GitHub Actions**, reducing deployment time by **40%** through automation.
- \* Integrated tools like **Trivy**, **Semgrep**, **Snyk**, and **SonarQube**, achieving **85%+ vulnerability coverage**.
- \* Implemented **GitOps deployment** on **AWS EKS** using **ArgoCD**, improving release reliability by **60%**.
- \* Provisioned infra with **Terraform** and containerized the app using **Docker** and **GHCR**.

### Automated Retail Store Application on Amazon EKS

- \* **Built and deployed a 5-service retail store application** (UI, Cart, Catalog, Orders, Checkout) on **Amazon EKS Auto Mode**.
- \* **Automated provisioning** of **10+ AWS resources** (VPC, Subnets, IAM, EKS, Ingress, Argo CD) using **Terraform**, reducing manual setup time by **80%**.
- \* **Developed a CI/CD pipeline** with **GitHub Actions** to build and push Docker images to **Amazon ECR**, cutting deployment effort from **30 mins to 5 mins**.
- \* **Implemented GitOps** with **Argo CD**, enabling **100% automated sync & rollback** and improving release reliability by **90%**.
- \* **Enhanced scalability** with **EKS Auto Mode**, allowing pods to scale on demand and eliminating manual node management.
- \* **Tools & Technologies:** AWS (EKS, ECR, IAM, VPC), Terraform, GitHub Actions, Argo CD, Helm, Kubernetes, Docker, NGINX Ingress.

## Leadership / Extracurricular

### NSS

*GHRCEM, Pune*

**2021 – 2024**

- \* Volunteered in a hilltop tree plantation campaign, contributing to environmental sustainability and afforestation efforts in rural areas.

## Certifications

- \* 100 Days of Code: The Complete Python Pro Bootcamp: **Udemy**
- \* Github for Devops Workshop: **Online Course**
- \* Journey to Cloud: Envisioning Your Solution **Online Course (IBM)**