

Omkar Patil

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Summary — Dynamic B'Tech student passionate about programming and transitioning into DevOps. Strong in problem-solving, Object-Oriented Programming, and software development lifecycles, with hands-on experience in AWS. Eager to contribute to innovative projects and deliver impactful solutions.

Key Expertise

Languages - C, C++, Java, Python
Frameworks - Node.js, Express.js
Cloud - AWS, Docker, Kubernetes

DevOps - CI-CD, Linux, Git-Github, Jenkins, Terraform,
CS- Fundamentals - OS, DBMS, OOP's
Databases - MySQL, MongoDB

Work Experience

AICTE Internship - [Project-Link](#)

Sep 2023 - Nov 2024

Intern

- Learn Core (AWS) Amazon Web Services – Compute Services, Database Services, CI/CD Services, Storage Services etc.
- Built scalable projects using AWS services like EC2, VPC, S3, Auto-Scaling Groups, Elastic Load Balancers and more.

Projects

Natours - [Project-link](#)

May 2024 - June 2024

- Developed a tour booking WebApp where users can view tour details, including a Mapbox-integrated map of locations
- Implemented Stripe for credit card payments, allowing users to book tours seamlessly.
- Users can manage their accounts, view booked tours, and more in the profile section.
- Built the backend using Node.js, Express, MongoDB, and used Pug template engine for the frontend.

AWS CICD Pipeline Automation with CloudFormation template - [Project-link](#)

July 2024 - July 2024

- Securely stored and managed code in CodeCommit repositories.
- Performed code compilation, test execution, and deployment artifact generation to S3 using CodeBuild.
- Automate app deployment to EC2 using CodeDeploy, following the set deployment strategy.
- Used CodePipeline to Serve as the orchestrator for the CI/CD workflow, seamlessly integrating with different stages.

AWS Infrastructure Automation with Boto3 - [Project-link](#)

June 2024 - June 2024

- Developed Python scripts using Boto3 to automate the provisioning and management of various AWS services, ensuring efficient and scalable cloud infrastructure.

Automating Docker Deployments with DevSecOps - [Project-link](#)

July 2024 - July 2024

- Designed a comprehensive DevSecOps CI/CD pipeline for a MERN stack application to enhance security and deployment efficiency.
- Integrated SonarQube, OWASP, and Trivy to ensure code quality and proactively address vulnerabilities.
- Leveraged Docker and Jenkins to automate build, security scans, and seamless deployments.

Education

MIT Academy of Engineering, Pune

B. Tech. - Computer Science and Engineering

2021 - 2025

CGPA: 8.73/10

Manere Highschool & Junior College, Ichalkaranji

HSC (XII) - PCM

2021

Percentage: 93.50/100

Samaj Vikas Vidyalaya, Sagaon

SSC (X)

2019

Percentage: 85.80/100

Certifications

- AWS Academy Graduate - [AWS Cloud Foundations](#)
- CCNA: - [Introduction to Networks](#)