Hem Chandra Upadhyay

@ porfolio-hem-upadhyay

Bachelor of Technology

Graphic Era Hill University, Bhimtal

📞 +91-9045039234

✉ hemupadhyay234@gmail.com

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in LinkedIn Profile

EDUCATION

• Graphic Era Hill University, Bhimtal — *2020-2024*
Bachelor of Technology in Computer Science and Engineering — CGPA/MARK(%): 8.67

• Maharishi Vidhya Mandir school — *2019-2020*
12th CBSE — CGPA/MARK(%): 75.83%

• Jim Corbett international school — *2017-2018*
10th CBSE — CGPA/MARK(%): 70.83%

PROJECTS

• AWS ECS Deployment Project — *Dec 2024 - Feb 2025*

Host the server for backend and frontend applications on AWS using infrastructure as code (IaC).

- Host the server for backend and frontend Javascript applications on AWS Elastic Container Service (ECS) using Terraform for infrastructure automation.
- Implemented AWS Fargate for serverless container management, ensuring scalability and cost efficiency.
- Utilized Cloudflare with AWS S3 for static content delivery, improving performance and security.
- Configured AWS IAM roles, security groups, and networking components to secure the deployment.
- Technology Used: AWS ECS, Fargate, Terraform, AWS-CLI, Cloudflare, S3, IAM, SSM, ECR, SES, SNS, CloudWatch

• Github action for email notification — *Nov 2024 - Dec 2024*

It allows us to email notifications using password and ses based

- The main goal is to make the email notification that can send messages using ses credentials
- Technology Used: Nodejs, Typescript.

• Cloud Resume Challenge — *Apr 2024 - May 2024*

This challenge is created to set up the portfolio to serve in the cloud platform.

- It is a challenge to help practice learning about the cloud in real environments via hosting your portfolio. Link
- Technology Used: S3 bucket, Cloudfront, DNS, Github CI/CD.

EXPERIENCE

•Associate Cloud Support Engineer — *Mar 2024 - Present*
Rubico IT

- Designed, deployed, and managed AWS cloud infrastructure, ensuring high availability, fault tolerance, and scalability.
- Developed Infrastructure as Code (IaC) from scratch using Terraform, modularizing components for reusability and maintainability.
- Configured and optimized CI/CD pipelines using Gitea Actions and Bitbucket Actions, automating deployments for client-hosted and in-house projects.
- Provisioned and monitored AWS services, including EC2, S3, RDS, SES, CloudWatch, IAM, VPC, ECR, and ECS, ensuring cost-efficient resource utilization.

SKILLS

Hard Skills: CI/CD pipelines, Automation, Continuous Integration, AWS
Languages: C/C++, JavaScript
Tools: Docker, Bash, Shell Scripting, Terraform