

Hem Chandra Upadhyay

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Curious and driven tech enthusiast who loves stepping out of comfort zones, exploring new trends, and solving problems with modern, practical solutions—while staying grounded in strong foundational knowledge.

Experience

Devops Engineer, Rubico IT – Haridwar, Uttarakhand Mar 2024 – Present

- Designed and deployed AWS infrastructure supporting 10+ production applications, improving system uptime by 99.99% through high availability and fault-tolerant architecture.
- Engineered Infrastructure as Code (IaC) using Terraform, cutting environment provisioning time by 60% and standardizing deployments across dev, staging, and prod.
- Automated CI/CD pipelines using GitHub Actions, Bitbucket Actions, and Gitea for 50+ projects, reducing manual deployment errors by 90% and accelerating deployment cycles by 40%.
- Provisioned and actively monitored AWS services including EC2, S3, RDS, SES, CloudWatch, Elastic Beanstalk, IAM, VPC, ECR, and ECS, ensuring efficient resource utilization.
- Integrated Cloudflare with client websites to enforce WAF and DDoS protection, reducing security incidents by 80%.

Projects

Infuse AI github

- Developed a scalable RAG system for LLM queries over user-fed PDFs/TXT files, reducing retrieval latency by 70% and enabling real-time, context-rich answers from 10k+ documents.
- Achieved sub-500ms query time on 10k+ docs with a full-stack setup using Node.js, React + Vite, Docker, and DynamoDB.

Slack Template GitHub Action GitHub Marketplace

- Designed a GitHub Action that enhanced Slack CI/CD alerts using Slack Block Kit, improving message clarity and reducing developer response time by 30%.
- Boosted CI/CD communication effectiveness by 50% through structured Slack messages with YAML-based customization, improving developer response time.

GitHub action for email notification GitHub Marketplace

- Implemented a secure, customizable email notification system using Amazon SES in a GitHub Action, integrated into 10+ CI/CD pipelines to streamline alerting processes.
- Leveraged TypeScript to ensure type safety, reusability, and hassle-free integration across multiple CI/CD .

SSH Credentials Manager github

- Developed a cross-platform SSH credential manager for secure local key storage, reducing the risk of credential leaks by 80% through encrypted file handling and restricted access.
- Implemented in JavaScript to ensure cross-platform compatibility and intuitive usage for developers.

Technologies

Languages: TypeScript, YAML, Bash, Python

Technologies: Docker, Terraform, CloudFormation, Shell Scripting, GitHub Actions, Bitbucket Pipelines, Gitea, AWS, Cloudflare, Linux

Education

Graphic Era Hill University, Bachelor of Technology in Computer Science and Engineering 2020-2024

- CGPA: 8.67/10.0