Shirish Maharjan

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PROFESSIONAL SUMMARY

Results-driven DevOps & Software Intelligence Engineer with over 6 years of experience designing, automating, and scaling cloud-native architectures. Proven track record in reducing deployment times by up to 70% and eliminating manual configuration errors through robust Infrastructure as Code (IaC) and optimized CI/CD pipelines. Adept at integrating AI coding assistants and Model Context Protocol (MCP) servers to build high-productivity development workflows. Combines systems engineering precision with a creative analytical mindset derived from digital music production and strategic problem-solving.

TECHNICAL SKILLS

- **Cloud & Infrastructure:** AWS (EC2, ECS, S3, VPC, IAM, Route 53, CloudWatch, Lambda), Azure, Docker, Kubernetes
- **Infrastructure as Code (IaC):** Terraform, CloudFormation, Ansible
- **CI/CD Pipelines:** GitHub Actions, AWS CodePipeline, GitLab CI/CD, Bitbucket Pipelines, Azure Pipelines
- **Monitoring & Observability:** Datadog, Prometheus, Grafana, New Relic, Nagios, ELK Stack
- **Automation & Programming:** Python, JavaScript, TypeScript, Java, PHP, C, Bash, PowerShell
- **AI & Software Intelligence:** Cursor AI, GitHub Copilot, MCP Server integrations, AIOps workflows
- **Databases & Operating Systems:** MySQL, PostgreSQL, MongoDB, Oracle, MS SQL Server; Linux, macOS, Windows

PROFESSIONAL EXPERIENCE

DevOps & Software Intelligence Engineer *Apr 2025 – Present*

Social Knowledge (RVLIFE), USA (Contract)

- Architected full-stack observability workflows using **Datadog** across APM, infrastructure metrics, and logs for fast resolution.
- Authored reusable **Terraform** modules for AWS/Datadog, slashing environment deployment times by 70% with strict reproducibility.
- Pioneered integration of AI assistants (**Cursor AI, GitHub Copilot**) and **MCP servers** to maximize developer velocity.
- Engineered automated, zero-downtime CI/CD pipelines using **GitHub Actions** and **AWS CodePipeline**.

DevOps Engineer *Jan 2024 – Mar 2025*

EBPearls, Nepal

- Containerized high-traffic React, Node.js, NestJS, and Python apps using **Docker** to optimize environment consistency.
- Automated software delivery pipelines with **Bitbucket Pipelines** and **AWS CodePipeline**, cutting deploy times to minutes.
- Utilized **Ansible** and **Terraform** for server provisioning, reducing manual configuration errors by 90%.
- Established robust real-time monitoring infrastructures leveraging **Nagios, New Relic, Prometheus, and Grafana**.

- Developed a custom Node.js Zoom chatbot to automate real-time product release notifications for cross-functional teams.

DevOps Engineer *Jan 2023 – Jul 2023*

Hitachi Energy, Nepal

- Orchestrated enterprise migration of **~150 repositories from SVN to Git**, enabling modern collaborative workflows.
- Standardized branching strategies and version control across teams through targeted developer training sessions.
- Configured **Azure Pipelines** to automate builds and deployments for critical PHP and MS SQL applications.

DevOps Engineer *Aug 2021 – Dec 2022*

Legalfit, USA (Contract)

- Managed a fleet of **~100 servers using Ansible** to ensure seamless, centralized configuration management.
- Successfully executed a zero-downtime automated DNS migration to **AWS Route 53**.
- Deployed and orchestrated highly available, auto-scaling environments on **Docker and Kubernetes**.
- Implemented security baselines aligned with the **AWS Well-Architected Framework** and **SOC2 compliance** controls.

DevOps Engineer *May 2020 – Aug 2021*

Cloudyfox, Nepal

- Containerized multi-stack applications and deployed them onto highly scalable **AWS ECS clusters using Docker**.
- Built **GitLab CI/CD** pipelines optimized for serverless **AWS SAM** infrastructure deployments.
- Managed scalable cloud infrastructure leveraging infrastructure as code via **Terraform** and AWS **CloudFormation**.
- Centralized system logs by deploying an **ELK Stack** to enhance visibility and deep debugging capabilities.

EDUCATION & CREDENTIALS

Bachelor in Computer Information Systems (BCIS) *2014 – 2018*

Apex College | Pokhara University | CGPA: 3.11/4.0

Higher Secondary Certificate & School Leaving Certificate *2010 – 2014*

Trinity International College (HSEB: 80.8%) | Bhanubhakta Memorial HSS (SLC: 85%)

PROJECTS, ACHIEVEMENTS & HOBBIES

- **Leadership & Web Development:** Successfully led a cross-functional student team to design, build, and deploy the official Apex College web infrastructure utilizing WordPress.
- **Home Lab Innovation:** Built personal GPU server infrastructure to run local LLMs and multi-modal GenAI pipelines.
- **Digital Music Production & Artistry:** Active music producer and live drummer; experienced in DAW sound engineering, multi-track mixing, arrangements, and performing for university events.
- **Academic Excellence:** Awarded "Best Final Year Academic Project" for building a secure multimedia e-commerce platform.
- **Strategic Mindset:** Analytical problem solver; winner of multiple institutional and corporate chess competitions.