

# SUDHARSAN N

Cloud DevOps Engineer

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## SUMMARY

Hardworking and motivated Cloud DevOps Engineer with expertise in **Python**, **Terraform**, and **Azure**. Experienced in automating workflows, implementing robust **CI/CD** pipelines, managing infrastructure as code, and deploying scalable cloud resources. Skilled in cross-functional collaboration and eager to contribute to building efficient, secure, and reliable cloud and DevOps solutions.

## TECHNICAL SKILLS

**Languages:** Python, Go, Java, C++

**Cloud & DevOps:** Azure, AWS, Azure DevOps, CI/CD, Terraform, Docker, GitOps

**Frameworks & Tools:** GraphQL, TensorFlow, Nginx, Azure OpenAI

**Core Skills:** OOP, Test Automation, Performance Tuning, LLM-Aided Debugging, Object-Oriented Programming

## EXPERIENCE

### Cloud DevOps Engineer II

Nov 2025 – Present

HP Inc R&D

Bangalore, India

- Building the Global AI Gateway for the HPIP AI Platform using KrakenD, integrating cloud-hosted AI models with secure, config-driven auth validation.
- Developing and extending custom KrakenD plugins to enhance request processing, security enforcement, and scalable API orchestration across the platform.

### Cloud DevOps Engineer I

Jun 2022 – Oct 2025

HP Inc R&D

Bangalore, India

- Designed and optimized CI/CD pipelines using GitOps and Terraform, enabling consistent and automated deployments across Azure environments.
- Built reusable Terraform modules and automated Terraform imports using Python to standardize infra provisioning and improve tagging for cost/audit insights.
- Developed Apigee API proxies, hardened Nginx edge servers, and created internal API discovery tooling using Strawberry GraphQL.
- Contributed to AI-driven engineering solutions including the RCA-AI Assistant and personalized print workflows, improving operational efficiency.

### DevOps Intern

Feb 2022 – Jun 2022

HP Inc R&D

Bangalore, India

- Implemented Robotic Process Automation using Python, AWS Lambda, and Power Automate, focusing on Optimization of routine DevOps tasks.
- Contributed to Writing automation scripts and infrastructure workflows to streamline CI/CD processes.

## PROJECTS

### Cloud-Integrated ECG Monitoring Platform

Feb 2022 – Jun 2022

*Technologies: NodeMCU, AWS (EC2, S3, DynamoDB), IoT Core*

Designed and deployed a real-time ECG monitoring system using IoT sensors and AWS cloud services, enabling remote health data collection and monitoring.

### Biometric Authentication for Cloud Security

Aug 2021 – Dec 2021

*Technologies: C++, JavaScript, HTML, CSS*

Implemented a robust biometric authentication system for cloud-based applications, enhancing security and user experience.

### Academic Resource Hub – Full Stack Web App

Aug 2021 – Dec 2021

*Technologies: HTML, CSS, JavaScript, Firebase*

Built a centralized learning platform for students to access and manage course materials, with secure authentication and dynamic content rendering.

<b>Secure File Transfer System</b>	Aug 2020 – Dec 2020
<i>Technologies: JavaScript, HTML, CSS</i>	
Developed a secure file transfer system with a user-friendly front-end interface, enabling efficient and optimized encrypted file sharing.	
<b>Advanced Persistent Threat Detection Framework</b>	Feb 2020 – Apr 2020
<i>Technologies: Python</i>	
Developed a comprehensive coding framework to detect and mitigate Advanced Persistent Threats, improving overall system security.	

## EDUCATION

<b>Master of Technology in Software Systems (Specialization: Data Analytics)</b>	2023 – 2025
<i>BITS Pilani</i>	<i>CGPA: 8.6</i>
<b>Bachelor of Technology in Computer Science and Engineering</b>	2018 – 2022
<i>SASTRA Deemed University</i>	<i>CGPA: 8.5</i>
<b>Higher Secondary Education</b>	2006 – 2018
<i>Kendriya Vidyalaya Gill Nagar</i>	<i>Class XII Percentage: 94%</i>

## CERTIFICATIONS & LEARNINGS

<b>Microsoft Azure</b> by Memi Lavi	Comprehensive course covering Azure services, cloud infrastructure, and deployment strategies. <i>Tech Stack:</i> Azure, Azure DevOps
<b>HashiCorp Certified: Terraform Associate 2025</b> by Zeal Vora	In-depth training on Terraform, including infrastructure as code, state management, and best practices. <i>Tech Stack:</i> Terraform, AWS, Docker
<b>Learn How To Code: Google's Go (golang) Programming Language</b> by Todd McLeod	29-hour course on foundational and advanced Go programming concepts, covering syntax, concurrency, and web development. <i>Tech Stack:</i> Go (Golang)
<b>Google Cloud Skills Boost: Generative AI, Responsible AI, and Cloud Resource Management</b>	Completed a set of introductory badge courses on Generative AI principles, Responsible AI practices, and cloud resource management using Google Cloud. <i>Tech Stack:</i> Google Cloud, Generative AI, Responsible AI
<b>Android App Development</b> by Internshala Trainings	Practical Android development course focused on app architecture, Java-based UI, and scalable code with emphasis on Maintaining state, Writing, and Predicting user interactions. <i>Tech Stack:</i> Android, Java

## LEADERSHIP & COMMUNITY INVOLVEMENT

<b>Technical Program Lead – Computer Society of India (CSI), Education Directorate, National HQ</b>	
<i>CIT Campus IV, Taramani, Chennai</i>	
Led tech talks, hackathons, and national events at CSI, showcasing leadership, public speaking, and event coordination.	

## LANGUAGES

<b>English:</b> Professional Working Proficiency	<b>Hindi:</b> Full Professional Proficiency
<b>Tamil:</b> Native Proficiency	<b>Telugu:</b> Limited Working Proficiency

## OTHER SKILLS & INTERESTS

<b>Leadership:</b> Served as the School Pupil Leader during high school, demonstrating strong leadership and organizational skills.
<b>Chess:</b> Proficient at chess, showcasing strategic thinking and problem-solving abilities.
<b>Music:</b> Passionate about Carnatic music and skilled in playing the Mridangam, with years of practice and performances.