

Samarth Deyagond

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Technical Skills

Languages: Golang, Python

Domains: Distributed Systems, REST & gRPC APIs, Computer Networks, DBMS, Data Structures, Algorithms

Cloud Native: Microservices, K8s Operators, Custom Resource Definitions (CRD), Controller Runtime, Crossplane

Cloud: Amazon Web Services, Azure, Azure Stack HCI, VMware

Developer Tools: Kubernetes, Docker, Postman, GitHub, GitHub Actions, Swagger, VS Code, ArgoCD

AI Tools: Claude Code, Cursor, Copilot, Codex

Certifications: Certified Kubernetes Administrator 2026

Experience

AMD *Bengaluru, India*
Staff Software Engineer *July 2025 – Present*

- I contribute to the design & development of AMD Fabric Manager (AFM) meant for configuration, life cycle management of AMD Helios - a next generation, state of the art, scale out GPU Rack powered by AMD Instinct MI450 GPUs.

Juniper Networks *Bengaluru, India*
Staff Software Engineer, Office of CTO *Jan 2025 – July 2025*

- I led the design & development of Juniper Cloud Interlink (JCI), a control & data plane for a Multi Cloud & Hybrid Cloud Network Overlay offering secured, assured connectivity as a Service to Enterprises.
- Architected K8s CRDs & Operators with Controller Runtime manage the life cycle of cloud resources.
- Designed Crossplane Compositions to deploy & manage the cloud resources across AWS & Azure.
- Pioneered JCI for Azure, leading a team of 5 to design a performance optimized & cost effective network overlay.
- Architected distributed lease locks to streamline concurrent configuration updates on Juniper Session Smart Routers.
- Collaborated with product leadership on strategic initiatives like GDPR compliance roadmap.

Senior Software Engineer, Office of CTO *Apr 2023 – Dec 2024*

- Architected microservices like Cloud Connect, Discovery, Cost Management Services honoring 12 factor app principles.
- Implemented Data Access Layer with GORM to decouple application and data layers to support multiple databases.
- Implemented API layer with gRPC protobufs for interservice data communication & an integration test suite.
- Implemented hot update feature to update configurations of microservices at runtime using K8s Watcher & Go channel.
- Actively involved in code reviews, mentoring engineers, presenting tech talks at Juniper CTO Technical Forum.

Microsoft *Bengaluru, India*
Software Development Engineer II *Feb 2022 – Mar 2023*

- Contributed to AKS Edge with K8s Operators to offer fully managed, CAPI based, Arc connected K8s on private cloud.
- Architected & led the development of Target Cluster Backup & Restore Operator for AKS Edge.
- Developed a suite to monitor & auto heal health of pipelines & agents in Azure DevOps to improve developer efficiency.
- I have been DRI (on-call) for 5+ weeks showcasing resiliency & quick throughput resolving production issues.

SAP Labs

Bengaluru, India

Developer

Jun 2020 – Feb 2022

- Contributed to Gardener, an OSS offering fully managed, homogeneous, multi cloud, scalable K8s clusters as a service.
- Developed K8s CRDs & Operators for Machine Controller Manager to manage lifecycle of VMs of K8s cluster nodes.
- Implemented various features to Gardener Cluster Autoscaler with the 'scale from zero' feature as a highlight.
- Developed Unit Test and Integration Test Suite in Golang for MCM and Cluster Autoscaler.

Product Management Fellow

Jun 2020 – Feb 2022

- Presented a webinar on Gardener on **CNCF Global Online** Program.
- Published educational blogs, OSS community presentations.
- Proposed documentation standards and compiled documents of Gardener for various user personas.
- Offered training on Kubernetes at SAP Innovation Challenge 2021 event.

Hewlett Packard Enterprise

Bengaluru, India

System Software Engineer I

Jul 2018 – Jun 2020

- Developed REST APIs and a Golang SDK for HPE Composable Fabric Manager (CFM) to enhance SDN capabilities.
- Proposed Reference Architectures for VMware Cloud Foundation on HPE Synergy as private cloud offering.
- Developed OSB APIs for RedHat OpenShift & integrated it with HPE OneSphere, a multi cloud management platform.
- Developed a management console for VMware Horizon Connection Servers, enabling VMware VDI management.
- Filed 3 invention disclosures - Smart Data Center, ML based VMaaS and Programmable Reference Architecture.
- I was an active member of HPE University Relationship team & contributed to blogs to HPE Community Blogs.

System Software Intern

Jan 2018 – Jul 2018

- Developed a full stack web console to monitor the server health and other stats.
- Implemented tests to a Unified Test Framework to run regressions on multiple Powershell cmdlet suites.
- Migrated the build process to the HPE Internal Cloud called Morpheus.
- Developed a registration and verification portal for HPE Codewars event.

Indian Institute of Technology, Ropar

Ropar, India

Research Intern

May 2016 – Jul 2016

- I was selected as Research Intern by the Indian Academy of Science's Summer Research Fellowship Program.
- Worked on 'Crowdsourced knowledge building' and proposed a qualitative theory for how knowledge grows in Wikipedia.

Projects & Other Open Source Contributions

Kube-vip: An Open Source contribution to fix failure to get IP lease after upgrading kube-vip from v0.3.6 to v0.4.4

Gen CRD docs: An Open Source contribution to fix to parse compound data types recursively in Golang CRDs.

Lomba: Contributed a log streaming feature to Lomba; an external Loki deployment when Loki is not deployed in a cluster.

Gita.IO: API adhering to the OpenAPI v3.0 serving the Bhagavad gita verses.

Prism: Software for campus recruitment drive and lateral hiring.

Home Loan Optimizer: A smart way to reduce your interest on home loans while not prepaying it off.

Awards & Achievements

- CTO Citizenship Award @ Juniper Networks 2025
- 3rd Best Technical Presentation Award @ HPE Intern Project Fair 2018
- Special Student at UG Summer School @ IISC, Bengaluru 2017
- 1st Prize at IEEE Cyberia Webmania @ SJCE Mysuru 2014

Education

Sri Jayachamarajendra College of Engineering, Mysuru <i>Bachelor of Science in Computer Science</i>	<i>Aug 2014 – May 2018</i> 9.33/10
Karnataka Science College, Dharwad <i>Pre Univeristy Course</i>	<i>Aug 2012 – May 2014</i> 96.0%
Pavan English Medium High School, Dharwad <i>Matriculation</i>	<i>Jun 2002 – May 2012</i> 98.72%