**Shivaswaroop Nittoor Krishnamurthy**

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**PROFESSIONAL SUMMARY**

MSc in Communication Systems student at KTH, specializing in Cloud Infrastructure and System Engineering with **3+ years** of experience in **AWS, Azure, Kubernetes, and Terraform**. Expertise in automating security checks, optimizing cloud infrastructures, and managing large-scale computing environments. Strong background in Linux-based environments, and passionate about cloud-native technologies and high-performance computing.

**TECHNICAL SKILLS**

**Cloud Platforms:** AWS, Azure

**Automation Tools:** Linux,Terraform, Ansible, Buildah, ArgoCD, GitLab CI

**Containerization & Orchestration:** Docker. Kubernetes

**Programming Languages:** Python, Go, Shell Scripting, HCL

**Logging and Monitoring:** Grafana, Graylog, Prometheus

**EDUCATION KTH Royal Institute of Technology Stockholm, Sweden**

Masters of Science in Communication Systems *Aug 2024 - Jun 2026*

**Relevant Coursework:** Advanced Internetworking, Internet Security and Privacy, Building Network Systems Security, Networked Systems for Edge or Cloud Data Centers.

**M.S Ramaiah Institute of Technology Bengaluru, India**

BE in Telecommunication Engineering (8.48/10) *Aug 2017 - Jul 2021*

**Relevant Coursework:** Internet of Things and Cloud Computing, Computer Communication Networks, Network Security, Python.

**PROFESSIONAL EXPERIENCE**

**Infinite Computer Solutions Bengaluru, India**

*Software Engineer*  *Mar 2021–July 2024*

* **Designed and optimized** large-scale cloud infrastructureprovisioning, reducing provisioning time by 30%.
* **Developed and optimized Terraform modules** for AWS and Azure, reducing infrastructure provisioning time by **30%**.
* **Automated** system deployments and configurations using Terraform and Ansible, ensuring **high availability**.
* **Built and maintained CI/CD pipelines** on GitLab, integrated with **ArgoCD**, reducing manual interventions by **60%** and increasing release frequency by **20%**.
* Improved **network security** by implementing **firewall rules, VPN configurations, and compliance policies**.
* **Led software supply chain security initiatives** by integrating **Buildah for secure image builds** and **Cosign for signing and verifying images**, reducing potential security risks by **30%**.
* **Enhanced Kubernetes security** by enforcing compliance policies with **Kyverno**, ensuring **100% adherence** to security standards and improving audit results by **20%**.
* **Designed and implemented a cost estimator for IBM Cloud Resources** using **Go**, reducing cloud cost estimation time by **50%** and improving budget accuracy by **20%**.
* **Improved infrastructure deployment efficiency by 35%** by collaborating with cross-functional teams.

**ACADEMIC PROJECTS**

**Kubernetes in a Datacenter Network** [Linux, Kubernetes] **KTH Royal Institute of Technology**

*Course: IK2227 Network Systems with Edge or Cloud Datacenters Jan 2025 - March 2025*

Configured a hybrid edge/cloud environment where end users access two microservices deployed on separate Kubernetes clusters within a Fat-Tree datacenter. Deployed open-source LLM Llama2 as microservices on Kubernetes clusters, isolated from one another using VXLAN. Configured the microservices to read the LLM weights from a remote location using RDMA

**Network Systems Security** [Linux, Apache, OpenSSL] **KTH Royal Institute of Technology**

*Course: EP2520 Building Networked Systems Security Jan 2025 - March 2025*

Designed and deployed a secure, networked system across two virtual locations by implementing a robust Public Key Infrastructure (PKI) using XCA and OpenSSL for certificate-based authentication. Configured firewall policies with IP Tables to enforce network security, enabling secure communication and file transfer through NextCloud. Deployed and secured web services using Apache, ensuring encrypted access and compliance with best practices for system hardening and access control.

**Extra-Curricular**

* **Speaker** at Finland Cloud Native Community Group [Meetup](https://www.meetup.com/kubernetes-finland/events/305752728/?eventOrigin=group_upcoming_events) (05/02/25)
* **Speaker** and **Panelist** at Stockholm Cloud Native Community Group [Event](https://community.cncf.io/events/details/cncf-stockholm-presents-stockholm-cncg-february-meetup/) (18/02/25)
* **Active member** of the Cloud Native Club. [LinkedIn](https://www.linkedin.com/company/the-cloud-native-club/posts/?feedView=all) [X](https://x.com/cloudnativeclub).
* **Attendee** at [KubeCon EU 2025](https://events.linuxfoundation.org/kubecon-cloudnativecon-europe/)