Sachin Kumar Singh

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EXPERIENCE

- **DigitalOcean** — Bengaluru, India
  Software Engineer 2 — *October 2023 - present*
  https://www.digitalocean.com/
  - Working with the internal platform team to improve developer experience and productivity.
  - Working on development and maintainance of "docc", an internal platform based on Kubernetes to ease application deployment and maintainance.

- **Canonical (Creators of Ubuntu)** — Remote
  Software Engineer — *September 2022 - October 2023*
  https://canonical.com/
  - Worked on MicroK8s, a lightweight Kubernetes distribution for IoT and Edge, under the Cloud engineering team.
  - Worked on development and maintenance of various features and projects, including Cluster API MicroK8s control-plane and bootstrap providers, dual-stack enablement, charm MicroK8s, and Ceph integrations.

- **VMware** — Bengaluru, India
  Software Engineer Intern — *Feburary 2022 - August 2022*
  https://www.vmware.com/
  - Worked under Tanzu Edge team on Kubernetes Cluster API Provider BYOH that enables Kubernetes Cluster management on bare-metal hosts.
  - Implemented an end-to-end feature for secure host provisioning and registration, based on bootstrap token authentication.

- **HackerRank** — Bengaluru, India
  Software Engineer Intern — *June 2021 - December 2021*
  https://www.hackerrank.com/
  - HackerRank is a technology hiring platform that is the standard for assessing developer skills for over 2,000+ companies around the world.
  - Worked with the community and the DevOps team on infrastructure and backend, improving internal tooling and developer experience.

- **Linux Foundation (LFX) Mentorship** — SPIFFE/SPIRE
  Intern at CNCF (Cloud Native Computing Foundation) — *Feb 2021 - May 2021*
  https://mentorship.lfx.linuxfoundation.org/mentee/8375a914-cef9-4031-a718-d58d3fac013b
  - Worked on SPIFFE/SPIRE (https://spiffe.io/) project to design and implement a new health check subsystem in SPIRE.
  - Implemented readiness and liveness checks for each subsystem to be aggregated and used for global health check of SPIRE.

EDUCATION

- **Guru Gobind Singh Indraprastha University** — New Delhi, India
  Bachelor of Technology (Information Technology), CGPA: 8.4 — *Aug. 2018 – June. 2022*

TALKS AND PRESENTATIONS

- **FOSDEM'23**
  Topic: Reconciliation Pattern, Control Theory, and Cluster API: The Holy Trinity

- **Presentations about MicroK8s**
  Presentations on Cluster API using MicroK8s and IPv4/IPv6 dual-stack features during community hours.

PROGRAMMING SKILLS

- **Languages**: Golang, Python, C/C++, SQL, Bash, Java, HTML, CSS, LaTeX, Make
- **Tools/Framework**: GNU/Linux, Git, Docker, Kubernetes, Flask, Travis CI, Jenkins, Terraform, AWS, GCP, Azure