

Karanjot Singh

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Professional Experience

Software Engineer (Tech),

Mar 2025 – present | Meyrin, Switzerland

CERN (European Organization for Nuclear Research)

- Working with the Atlas Team to maintain and add new features to CERN's Data Management Software - Rucio.
- Reduced CI time by 60%** (1h20m → 35m) by refactoring the testing pipelines using containerized runtime images and registry caching.
- Technology stack (Python, CI / Kubernetes)**

Software Engineering Intern,

Sep 2023 – Feb 2025 | Remote

Atlan (\$750M Valuation, 2M+ Active Users) ✉️

- Improved developer experience in the **Python SDK** by adding features, fixing issues, and streamlining release pipelines, enabling faster integrations for 100+ enterprise users.
- Architected and implemented Atlan's Go SDK** from scratch, adopted by internal teams and integrated into the Atlan CLI used by large enterprise clients.
- Technology stack (Golang, Python, Atlas)**

Openlab Summer Intern,

Jun 2024 – Aug 2024 | Meyrin, Switzerland

CERN (European Organization for Nuclear Research)

- Selected as **one of the 30 students** out of more than 6660 students worldwide
- Worked with the **Cern PW-PI team** to research and integrate **COSI Interface** in Openshift and Cern K8s services.
- Technology Stack (Golang, Kubernetes, OpenStack, Openshift, K8s Storage)**

Google Summer of Code' 2023 Developer, KDE

May 2023 – Sep 2023 | Remote

- Selected as one of 1220 developers from 43k+ applicants internationally to **implement a Remote Energy Consumption Lab using Gitlab CI and Custom Runners**, enabling remote testing of software's energy usage; **increased testing capacity by 60%** and **reduced testing time by 30%**.
- Technology stack (Python, Gitlab CI/CD, Gitlab Runners, R)**

Linux Foundation Mentorship Intern,

Mar 2023 – May 2023 | Remote

Cloud Native Computing Foundation - Kubescape

- Implemented a **Kubernetes port** and **service discovery scanner** in the Kubescape project under CNCF.
- Worked on integrating a variety of databases, such as **Cassandra, MySQL, Postgres, and Redis**, for service discovery, along with other services like **KubeApiServer, Kubelet**, etc.
- Technology stack (Golang, Kubernetes, Rego, DevSecOps)**

Open Source Work

KDE, Core Maintainer

Jan 2022 – Present

- Maintainer KEcolab** (used for measuring software's energy consumption remotely) and **KdeEcoTest** (a tool used in order to produce energy consumption measurements using simulating the human usage scenario).
- Mentor - Season of KDE'23, '24, '25 / Mentee - Season of KDE'21 | Google Summer of Code '23

Skills

Languages: C/C++, Golang, Python, SQL, Shell Scripting

Frameworks/Databases: Django, Flask, MySQL, NoSql, MongoDB, Postgresql, Redis

Developer Tools: Linux/Unix, Git, Docker, Kubernetes, Azure, AWS, Grafana, Prometheus, Helm, Jenkins, Terraform, ArgoCD, Openshift

Achievements

- Talks ✉️
- Amazon ML Summer School Fellow (2023) – Top 5% selection
- Microsoft Certified (Security) x2
- Contributed to 25+ Open-source Organizations including AWS, CNCF, Tremor, TorProject, IntelOwl, NixOS etc.
- References ✉️
- Work featured in Heise.de (German tech magazine)
- Certified Kubernetes Administrator (In Progress)
- CTF Player (#20 in India, #201 Worldwide - 2022) | Freedom CTF Winner, Google CTF Top 20

Education

Bachelor of Technology in Computer Science and Engineering,

2021 – 2025 | Noida, India

Jaypee Institute Of Information Technology