

Karanjot Singh

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Education

Bachelor of Technology in Computer Science and Engineering,

Jaypee Institute Of Information Technology
2021 – 2025 | Noida, India

AISSCE (C.B.S.E),

Army Public School , Ambala Cantt
2020 – 2021 | Ambala Cantt, India

CBSE XII - 96.4% with Computer Science

CBSE X - 93.4%

Skills

- Bash, Powershell, Html, CSS, JS, Python, C/C++, Golang, LaTeX, SQL
- Docker, Kubernetes, Vagrant, Jenkins, CI/CD, gRPC, Hugo, Prometheus, AWS, Azure, Linux

Volunteering

KDE ECO, CORE MAINTAINER

2022 April – present

- **Maintainer KDEECOTEST** (A tool used in order to produce energy consumption measurements using simulating the human usage scenario. This tool **made the energy measurement process 95% efficient and faster.**)
- **Presented in KDE ECO Panel discussion** 📍 at **Akademy 2022, Barcelona.**

Open Source Developers Community (OSDC),

Core Team Member 📍

2022 January – present

- **One of the fourteen Core-Team Members** of the Open Source Developers Community of IIIT, Noida-62.
- Organized **OSDHack'22** and **OSDHack'23** hackathons, **OSDCTF'22** and **OSDCTF'23** Capture the Flag competitions, and **Wait-WTF!** (Wait-What's the fix) Linux bug fixing competition.
- **Gave a talk on "May i own your phone"** 📍 where we showed **live demo of hacking** someone's smartphone using **fatrat**.

Achievements

CTF PLAYER (LEVEL_ZERO , SYMPHONY GANG, 0xDefac2)

- **Ranked #20 on ctfime** in India and **#201 worldwide** (2021), **Ranked #39 in Google CTF'22**, **FreedomCTF Spring 2021 winner**, and **Top 350 globally** on HackTheBox

Open Source Contributions :

- **Contributed to 25+ Open-source Organisations** including **AWS, CNCF, Microsoft, EnvoyProxy, Tremor, TorProject, IntelOwl, NixOS** etc.

Microsoft Certified x2 : Security Analyst 📍

Amazon ML Summer School'23 Fellow

Professional Experience

Software Engineering Intern, Atlan 📍

2023 September – present

- Contributing to **Developer Experience** improvements, such as enhancing features and resolving issues in **Atlan's Python SDK and SMIs.**
- member of the **Active Metadata Team.**

Google Summer of Code' 2023 Developer, KDE

2023 May – 2023 September

- Developed and executed a project plan to **implement a Remote Energy Consumption Lab**, enabling remote testing of software's energy usage; **increased testing capacity by 60%** and **reduced testing time by 30%.**
- Project link: <https://summerofcode.withgoogle.com/programs/2023/projects/IFkJPy65> 📍
- **Technology stack (python, gitlab CI/CD, flask, R)**

Linux Foundation Mentorship Intern,

Cloud Native Computing Foundation - Kubescape

2023 March – 2023 May

- Implemented a **Kubernetes port and service discovery scanner in Kubescape** project under CNCF during the mentorship program.
- Kubenetworkscanner uses the concept of scanning each OSI layer and then determining the services by interacting in real time with it instead of the conventional port:service map which **made network scanning 10x faster.**
- Project Link: <https://github.com/kubescape/kubescape-network-scanner> 📍
- **Technology stack (Golang , K8s, Rego, DevSecOps)**

SEASON OF KDE' 2023 MENTOR, KDE

2022 December – 2023 April

- **Mentored and improved KdeEcoTest by 80% as part of Session of KDE'23** 📍
- Various new features including modal window and keyboard support were added, and a new UI was also developed.
- The work mentored can be found at : https://community.kde.org/SoK/2023/StatusReport/Mohamed_Ibrahim 📍

SEASON OF KDE ' 2022 MENTEE, KDE 📍

2022 January – 2022 April

- Worked on **creating standard usage scenarios for various text editors (Kate , Kwrite etc) used in energy consumption measurements** of softwares.
- Conducted comprehensive **research and testing on 10+ automation tools** to streamline standard usage scenarios; identified and implemented using **xdotool** tool that **reduced manual tasks by 50%** and **saved 3+ Hours** due to it's cli interface.
- **Technology stack (Python , Bash , Git , Automation)**