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2024-01-26

Letter of reference for Karanjot Singh, January 2024

Karanjot Singh joined the KDE community as a contributor in 2022. Between May and August 2023 he participated in the Google Summer of Code program for the KDE community where I acted as his mentor.

KDE is a 27 year old Free and Open Source Software community with thousands of contributors from all around the world having produced among many other things the Plasma desktop environment for Linux and the digital painting application Krita as well as KHTML which ended up as the foundation of most of today's web browsers. Google Summer of Code is a student mentoring program existing since 2005 and funded by Google to foster Free Software contributions, and for which KDE has been mentoring students since its beginning.

As part of his Google Summer of Code project Karanjot worked on automating energy consumption measurements of standard usage scenarios of applications, in accordance with the procedures set forward by the German Environment Agency (Umweltbundesamt) for the "Blue Angel" eco label for sustainable software. This involved a wide variety of tasks and technologies, from energy and performance measurement data acquisition using Python over data analysis in R to orchestration of Gitlab CI pipelines.

Karanjot also presented his work in online meetups as well as blog posts.

Following the successful completion of the Google Summer of Code project, Karanjot is now mentoring students participating in other KDE mentoring programs himself, continuing the work on tools for developing efficient and sustainable software.

Within an existing complex setup Karanjot developed effective software solutions while considering aspects of operational security, environmental impact and scientific accuracy. He was able to rapidly become familiar with whatever tool was needed for the job at hand.

Keen to work on challenges that matter, Karanjot quickly became a valued member of our international and distributed team.

If you have further questions, please don't hesitate to contact me.

Sincerely,

Volker Krause