

University Application

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ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE EPFL

To whom it may concern,

It is with great pleasure that I am submitting my application for **Summer@EPFL 2017** program at EPFL for the summers of 2017 (May – July). I am currently doing my bachelor's degree at Indian Institute of Technology (IIT) Delhi, majoring in Computer Science and Engineering with a deep interest in computer networking and parallel programming.

It is during my coursework I got to know about the field of computer networking and immediately found deep interest in it. From December, 2016 I started to learn Python language on my own as it has many libraries which are worth to play with. Then I spent most of the time to learn new things and then coding it up. I familiarized myself with the Tkinter, Web2Py, Sockets, Django, Threading, Scipy, Numpy and many other modules of Python which provide many wonderful work alone assignments.

During the summers of 2016 I tried to learn more about Computer Networking and tried many resources from internet to learn the basics. This time Python language came in handy and I tried to write some scripts in Python which increased my interest in Networking even more. I did an individual project to learn the basics of Peer-to-Peer system. The project uses Socket module of Python. The details of the project can be found on Github(Link in CV). I also wrote a Server/Client system in which the server can act as a proxy or listen to request. Both of this mini projects boosted my confidence and I decided that I would like to a research project under this field.

I am currently doing an online course on Computer Networking from Stanford University. I am also doing a Parallel Computing course of EPFL online. This will help me to have a strong understanding of basics. I am also planning to do a mini project next semester under Dr. Maya Ramanath on Databases and Information retrieval at IIT Delhi. Parallel and distributed computing is also what I like to learn about. Many of my course projects are on this field. Projects are the real source of understanding things and applying them in the real life. Project on networking or parallel computing will be the best way to spend the summer that too in EPFL.

I have always been very eager to get an opportunity to do something. So far all the work I have been done is due to self motivation and not because of my curriculum requirements. This is the sole reason I would fully take the benefit and work to my full potential. EPFL will provide me a tremendous opportunity to learn and foster. My zeal to learn and do something is the key factor for which I think I deserve the opportunity for research at a world class facility. There are many difficulties when anyone tries to learn by himself but that makes him stronger and next time when an opportunity is given then he doesn't miss the chance to show the caliber. I can assure that given the facilities and work culture of EPFL, I will give my 100% to work in the project I am assigned to.

I appreciate you for the time to look up on my details. Having me on the research team will surely increase the number of person who are willing to give 24 hours of the day to meet the requirements. I am extremely motivated to do a project in computer networking or parallel computing or any related fields. I like to code most of the times, so given a coding profile in the research team would certainly be the best for me. Also any requisites for the project can be met in the next semester before the summers.

Yours sincerely,

Swapnil Das