

Dear Prof. Dr. Jiguo Cao,

I am writing this statement to express my interest in the postdoc opening that has been announced on your webpage. I am in my final year of Ph.D. and would be defending in June this year from Universite Libre de Bruxelles (ULB), Belgium & Universitat Politecnica de Catalunya (UPC), Spain. The thesis topic is about temporal graph mining and large graph distributed processing, and it is advised by Prof. Toon Calders from ULB and Prof. Alberto Abello from UPC. As part of my thesis, I have worked on different stream mining data structures, temporal graph analysis, information flow mining in interaction networks, and distributed graph processing. The main focus of the thesis is to design and develop efficient algorithms to analysis temporal graphs and provide distributed processing for such algorithms.

I have been granted the MSc (2008-2011) in Computer science from CMI (Chennai Mathematical Institute), India. ). My masters was part of a joint program conducted by TCS (Tata consultancy services) and CMI wherein I use to go to university for my Master in Computer science course 2 days a week and work as research and training assistant in TCS for rest of the time.

Concerning my industry experience, I have worked both as a researcher in Industry lab working on prototype projects and also as a technical team lead and architect to take one of the prototypes to market as a hugely successful large-scale system to be used by multiple clients from Education domain. I was the lead Java developer and architect for the design and development of the software platform on a multi-tenant architect for Software as a Service model. For the last 4 years, I am working with C++, Python, and Scala to develop open source code to provide the implementation of algorithms and data structures developed as part of our research.

Currently, I am working on fraud detection using graph pattern mining. As part of my future research aspirations I am looking into applied data science projects and in the search for the same came across the postdoc position in your lab. I did my graduation in Physics and Statistic was one of the courses I studied in my Masters. I have a solid foundation in mathematics and a basic education in Statistics. My lack of solid background in Statistics is compensated by my strong background and experience in programing, big data platforms and data science tools such as my experience in Scala, Python, Pandas, Numpy, scikit-learn etc. Please find my CV attached along with this letter for your consideration.

Thanks

Rohit