

Irinjalakuda, Thrissur
680121 Kerala
India

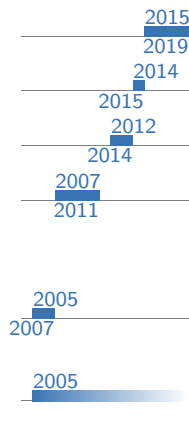
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Anand Babu .N.B

Education

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- 2015
2019
2014
2015
2012
2014
2007
2011
2005
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2005
- Pursuing PhD Computer Science, IIT Bombay, CGPA : 8.93, .**
 - Junior Research Fellow, IMSc Chennai, .**
 - M.Tech Computer Science, IIT Kanpur, CGPA : 8.0.**
 - B.Tech Computer Science, University of Calicut, Govt. Engineering College Thrissur, Kerala.**
72.6%
 - Higher Secondary, CBSE, Bhavans Vidya Mandir, Irinjalakuda, Thrissur, Kerala.**
89.0%
 - High School, Kerala State Board, Don Bosco HSS, Irinjalakuda, Thrissur, Kerala.**
93.4%

Master thesis

- title *Protein Folding Problem on a Grid using Randomised Metropolis Algorithm*
- supervisors Prof. Somenath Biswas-IIT Kanpur, Prof. Nisheeth Vishnoi-EPFL Switzerland, Prof. Piyush K.Kurur-IIT Kanpur
- description Heuristically better algorithm for determining the minimum energy fold based on the conjecture proposed where the rate of the protein folding is proportional to the difference between the minimum and the second minimum energy states. Algorithm uses Randomised Metropolis algorithm with the new global moves proposed in this work for finding the minimum energy state faster.
- url MTech Thesis link

Seminar

- title *Graph Coloring and Probabilistic Methods*
- supervisors Prof. Sundar Vishwanathan-IIT Bombay
- description Studying the randomized algorithm for getting a proper coloring of vertices using $O(\frac{\Delta}{\ln \Delta} \ln r)$ colors in a locally r -colorable graph in expected $\text{poly}(n2^\Delta)$ time.

Research Exposure & Work Experience

- JRF-Institute of Mathematical Science(IMSc), Chennai
- Visiting Student-Microsoft Research(MSR), Bangalore
- Developer-Xurmo Technologies Pvt. Ltd, Bangalore

Projects

- title *Online Music Recognition Application*
supervisors Prof. T.V.Prabhakar-IIT Kanpur
description Developed an android app that can identify the music being played in the surroundings. The app leveraged the services provided by EchoNest.
- title *PubOnline*
supervisors Prof. T.V.Prabhakar-IIT Kanpur
description Created a web application in Ruby on Rails that enables an author to publish his/her books online.
- title *Remote Computing Software*
supervisors Prof. P.V.Savyan-Govt. Engg. College Thrissur
description It allows to access a Remote computer and to perform basic operations on it with the help of its in-built Modules which provide us with functionalities of basic system tools.

Term Papers

- title *Muller Schupp Determinization of Buchi Automata*
supervisors Prof. Anil Seth-IIT Kanpur
description Determinization is necessary for specification of infinite games. Lower bound of $2^{O(n \log n)}$.
- title *In-Picture Search Algorithm*
description It is a generalised searching algorithm to search for image or multimedia data with much lesser complexity.

Achievements

- JEST-2012 National Level Exam-among top 29 at National level (Institute of Mathematical Sciences)
- TATA Institute of Fundamental Research GS 2012-among top 31 at National level(TIFR)
- Participated in Yahoo HACK U IIT Kanpur 2012.
- Offered a position in Algorithm Group VMWare Bangalore-Campus Drive 2014-IIT Kanpur
- Offered a direct admission to Chennai Mathematical Institute (CMI)
- C V RAMAN Essay Competition by Dept. of Education Kerala - 14th rank in State.

- 16th National Talent Search Exam 2001 - 59th rank at National level
- AIR-325 in GATE 2012

Played Role as

- course *Teaching Assistant for CS747 (Foundations of Intelligent and Learning Agents)*
- instructor Prof. Shivaram Kalyanakrishnan-IIT Bombay
- course *Teaching Assistant for CS310 (Theory of Computation)*
- instructor Prof. Nutan Limaye-IIT Bombay
- course *Teaching Assistant for ESC101 (Programming in C)*
- instructor Prof. Sumit Ganguly-IIT Kanpur
- course *Teaching Assistant for CS340 (Theory of Computation)*
- instructor Prof. Ragnath Tiwari-IIT Kanpur

Academic Interests

- Algorithms
- Programming
- Mathematical Puzzles & Games
- Probability & Combinatorics