

Resumé

Name : Venkata Ravikant Dintyala Subrahmanya
Date of birth : December 6, 1982
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Visa : F1 Student
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Educational Background

- PhD candidate, Computer Science (major), Applied Engineering Physics (minor), Cornell University (2005-current); GPA 3.89
- BTech, Computer Science and Engineering, IIT Madras (2000-2004); GPA 9.32/10
- 4 year nurture program¹, IIMSc (Institute of Mathematical Sciences) Chennai (2000-2004)

Employment

- Worked as Technical Staff Member during 2004 - 2005 in the information management group at IBM India research lab.

Research/Industrial Experience

- **Research assistant with Prof. Ron Elber (Summer 2006, May 2007 - Present)**
Design coarse-grained energies to rank decoys for unbound protein-protein docking
- **Technical staff member, Information Management group, IBM India Research Lab (July 2004 - June 2005)**
Usage and performance analysis of databases and capacity planning
- **Undergrad at IIT Madras with Prof. C Pandu Rangan (July 2003 - June 2004)**
Byzantine agreement and approximate agreement on synchronous networks with ‘local broadcasts’

Publications

- “Improving DB2 Performance Expert - A Generic Analysis Framework”, 10th International Conference on Extending Database Technology (EDBT 2006): 1097-1011
- “On Byzantine Agreement over (2,3) Uniform Hypergraphs”, 18th International Symposium On Distributed Computing (DISC 2004): 450-464
- “On The Round Complexity of Distributed Consensus over Synchronous Networks”, Brief Announcement, 23rd ACM SIGACT - SIGOPS Symposium On Principles of Distributed Computing (PODC 2004): 397.

¹The program is a continuation of the Mathematics Olympiad Training for selected students. Every summer, we were introduced to advanced areas of mathematics, provided with study material for the coming year and tested on the topics of study of the previous year.

Course Work

- Advanced physical chemistry - Advanced quantum mechanics (Spring 2008)
- Statistical mechanics (Spring 2007)
- Frontiers in biophysics (Fall 2006)
- Advanced programming languages (Fall 2006)
- Computational molecular biology (Spring 2006)
- Biological sequence analysis (Spring 2006)
- Structure of information networks (Spring 2006)
- Analysis of algorithms (Fall 2005)
- Advanced systems (Fall 2005)

Teaching Experience

- Spring 2007 : Teaching assistant for Introduction to bioinformatics
- Fall 2006 : Teaching assistant for Discrete structures
- Spring 2006 : Teaching assistant for Operating systems
- Fall 2005 : Teaching assistant for Object oriented programming and data structures

Programming Skills

- Programming Languages: C, C++, Java, Perl, Python, Prolog, SML, Verilog.
- Operating Systems : Unix (and its flavors), Linux, Windows, Solaris.

Academic Distinctions

- Aditya Birla Scholar - 2000 (My undergraduate education was sponsored by the Aditya Birla group)
- Secured all India rank 13 in JEE - 2000
- Gold medalist at the Indian National Physics Olympiad (INPhO) - 2000
- First in the Indian National Mathematics Olympiad (INMO) - 1999

References

- Prof. Ron Elber
Department of Chemistry & Biochemistry,
University of Texas at Austin, Austin, Texas.
(email: ron@ices.utexas.edu)
- Prof. C. Pandu Rangan
Department of Computer Science & Engineering,
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