



Venkatesh Vinayakarao

PhD Student, Program Analysis Group, IIT-Delhi

Interests

Software Engineering
Code Search
Information Retrieval
Prog. Languages
Natural Lang. Proc.

Competitive Exams

GRE 2013: 315
TOEFL 2013: 108
GATE '16 CS Qualified
CBSE-UGC NET '17
CS Qualified for
Assistant Professor

Teaching/TA Exp.

Information Retrieval
Statistical Computation
Intro. to Big Data
Software Engineering

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.cmu.edu

Web, Git & Blog

vvtesh.co.in
github.com/vvtesh
vinayakarao.wordpress
.com

Education

- Since 2013 **PhD in Computer Science** IIT-Delhi, India
Advised by Dr. Rahul Purandare
- 2002 - 2003 **MS in Information Technology** Carnegie Mellon University, USA
With specialization in Software Engineering
- 1996 - 2000 **BE in Computer Science and Engineering** Madras University, India

Experience

Summary: Around 12 Years of industry experience in software development in hands-on independent contributor roles, primarily using Java and related technologies.

- 04/17 - 07/17 **Research Intern** Microsoft Research, Cambridge, UK
On medical image segmentation with the InnerEye team.
- 06/12 - 07/13 **Senior SDE** Microsoft IDC (Search Technologies - Bing), Hyderabad, India
Content Processing, Relevance and Ranking.
- 03/10 - 06/12 **Principal Engineer** Yahoo!, Bangalore, India
Building content processing products for the cloud platform group.
- 07/00 - 03/10 **Software Developer** Multiple Organizations, India
For Nokia, CoreObjects, HCL and Silverline using Java and related tech.

Honors and Awards

- 08/2015 **Selected for (graduate level) Student Research Competition**
At the 10th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering BERGAMO, ITALY, Aug 30 – Sep 4, 2015
- 04/2014 **Prime Minister's Fellowship for Doctoral Research**
Supported by Confederation of Indian Industries (CII) and Microsoft Research
- 12/2003 **Best Technical Knowledge and Best Commitment to Work**
At Professional Development Center, Carnegie Mellon University
- 01/2000 **All India III Rank in Semester II of Higher Diploma in Communication and Network Management**
Exam conducted by Asset International Pvt. Ltd.

Representative Publications

- V. Vinayakarao, A. Sarma, R. Purandare, S. Jain and S. Jain, **ANNE: Improving Source Code Search using Entity Retrieval Approach**, *In the Proceedings of the 10th International Conference on Web Search and Data Mining (WSDM 2017), Cambridge, UK*
- V. Vinayakarao, R. Purandare, A. Nori, **Structurally Heterogeneous Source Code Examples from Unstructured Knowledge Sources**, *In the Proceedings of the ACM SIGPLAN 2015 Workshop on Partial Evaluation and Program Manipulation (PEPM 2015), India*