

Sai Deep Tetali

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AREAS OF INTEREST

Formal Methods, Software Engineering and Programming Languages

EDUCATION

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)
B.Tech in Information and Communication Technology (ICT) (2004-2008)
GPA: 8.39/10

PUBLICATIONS

The Yogi Project: Software Property Checking via Static Analysis and Testing

Aditya V. Nori, Sriram K. Rajamani, Sai Deep Tetali, Aditya V. Thakur. *(To appear in TACAS 2009)*

Compositional May-Must Program Analysis: Unleashing The Power of Alternation

Patrice Godefroid, Aditya V. Nori, Sriram K. Rajamani, Sai Deep Tetali. *(submitted)*

Proofs from Tests

Nels E. Beckman, Aditya V. Nori, Sriram K. Rajamani, Robert J. Simmons, Sai Deep Tetali, Aditya V. Thakur *(submitted to IEEE Transactions on Software Engineering)*

PROGRAMMING LANGUAGES KNOWN

Well: C, C#, Java, Python, OCaml, F#, JavaScript

Fair: Objective C, Ruby, Perl, Lisp, AppleScript, Erlang, PHP

PROJECTS

Yogi (RSE & ADP teams, MSRI): Currently working on development and optimization of Yogi. Yogi is a scalable software property checker which systematically combines static analysis and testing. It has been successfully applied to the domain of Windows device drivers.

wikiBABEL (MLS & ADP teams, MSRI): Developed the backend and some components of the front end of wikiBABEL. wikiBABEL is an online collaborative site that allows generation of multilingual content accessible to amateurs and in the process helps in collection of parallel corpora.

Functional OS Kernel (guided by Prof. Sanjay Srivastava): Designed and implemented an operating system kernel for Intel processors (x386 onwards). It is multitasking and understands FAT file system. It was written in C with the hardware drivers in x86 assembly language.

Orange (AJAX based cricket score system): Implemented an interactive, load balancing, real time cricket scoreboard as a part of industrial internship at Satyam Technologies in Hyderabad. The backend was done using PHP and front end using HTML and JavaScript.

LiveEdit, (guided by Prof. Asim Banerjee): Designed and implemented an advanced web integrated development environment (IDE) which while providing all the basic features of other IDEs, provided several advanced features like live preview, integrated internet search, upload to servers, support for various languages etc. The hallmark of the editor was the simple, uncluttered and intuitive user interface. It was written in Java and is designed to be platform independent.

WORK EXPERIENCE

Currently working as Research Software Developer in Microsoft Research India.

TEACHING

Teaching assistant for Computer Organization and Programming course taught by Prof. Asim Banerjee for first year undergraduates. (Course duration: August to December 2007.)

INTERNSHIPS

Microsoft Research, Bangalore (Jan-July, 2008): Interned with the Advanced Development and Prototyping (ADP) Group. Worked on the implementation of wikiBABEL.

Prof. Abhinay Pandya, DA-IICT (May-July, 2007): Worked on improving Latent Semantic Analysis.

Satyam Technologies, Hyderabad (May-July 2006): Implemented an interactive, load balancing real time cricket scoreboard.

COVA, Ananthapur (May-June, 2005): This internship was undertaken to study the application of ICT solutions to the problems of the rural areas in Ananthapur district of Andhra Pradesh.

RELEVANT COURSES OF STUDY

Computer Algorithms
Programming Languages
Pattern Recognition
Cryptography
Models of Computation
Data Structures
Operating Systems
Computer Networks
Structured Programming
Object Oriented Programming
Computer Organization
Discrete Mathematics

MISCELLANEOUS

Present in top 15% of the batch of 240 students in DA-IICT.

Organized Fortress, a network hacking competition, as a part of the annual DA-IICT tech-fest, Synapse.

CONTACT ADDRESS

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PERMANENT ADDRESS

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