

# Shirish Hemant Phatak

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## Education

Expected 2002                      *Rutgers, The State University*                      New Brunswick, NJ  
**PhD Candidate, Computer Science**

February 1995                      Indian Institute of Technology                      Bombay, India  
**Master of Technology, Computer Science and Engineering**  
*CMC Gold medal for placing first in class*

August 1993                      S.G.S. Inst. Of Tech. And Sc.                      Indore, India  
**Bachelor of Engineering, Computer Science**  
*Gold medal for placing first in B. E.*

## Awards received

**Excellence Fellowship** at Rutgers University (1995-1997).  
**National Talent Search Scholarship** (1987-1993).

## Work Experience

**CTO and acting VP Engineering**, Tacit Networks Inc., Somerset, NJ, 2000-present.  
Responsible for architecture, design and development of the Tacit's wide area storage caching technology and storage caching product lines.

**IT Licensing and Patent Consultant**, Office of Corporate Liaison and Technology Transfer, Rutgers University, 2000. Provided services to Rutgers for interpretation, validation and commercial potential of inventions; filing of patent applications; identification of potential partners and licensees for various technologies; and negotiation of licensing contracts. The only student ever to provide such services to Rutgers.

**System Administrator**, CCL Labs, EOHSI, Rutgers University 1996-2000. Installed, configured and administered 20+ Solaris and NT systems as well as UNIX/NT internetworking.

**Research Assistant**, Dataman Lab, Rutgers University 1997- 2000. Linux and NT System administration and research functions including hacking the Linux kernel and providing support for various demos and research projects.

**Project Engineer**, ADA Labs, Indian Institute of Technology, Bombay, India 1995. Responsible for adding multimedia components to the simulator prototype written in C and C++, which is now in use by the Indian Air Force. Also managed a team of students working on the prototype.

## Recent Projects

**InterMezzo File System (Principle Developer)**, 2000-2001. Designed, implemented and tested kernel and user space components of the InterMezzo file system, which is now a part of the Linux 2.4/2.5 kernel.

**Mobile Databases (PhD Thesis):** (DARPA funded project) 1995-present. Study of mobile disconnected client-server databases. Involves simulation of advanced concurrency control and consistency policies and options for physical database organization. Also involved prototyping in C and JAVA.

**"Web&": An Architecture for Non-Interactive Web Transactions (part of PhD Thesis)** 1999-present. The implementation using JAVA, JDBC, network servers/clients and web clients, *servlets*, dynamic class *re-loading*, XML and DOM manipulation and JINI.

**Opportunistic Protocols** 1995-1996: Prototype implementation for DARPA using C, *Tcl/Tk* and *Motif* on a Linux based Mobile-IP platform. The system is capable of vertically handing off FTP and E-Mail sessions between CDPD, Wireless LAN (WaveLAN 802.11) and Ethernet.

## Computer Skills

**Languages:** C, C++, JAVA, XML and HTML, Pascal, Fortran, Basic, Haskell  
**Platforms:** Solaris/SunOS, Windows 2000/NT/95/98, Linux, FreeBSD

## Publications

A list of publications is available on the web page. These include publications on mobile databases and web/e-commerce.

## References

References are available on request.