

# Biodata of Ravi S. Iyer

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## Current Role

Offering Free Seva as an Independent Software Consultant.

## Experience

18 years in software development industry (in U.S., Europe, Far East Asia and India) playing roles right from programmer, designer, project manager, software development manager to finally a software consultant role. Have also been a trainer teaching programming & design in industry; Retired from commercial work in Aug. 2002.

Subsequently, as Free Seva, for around 9 years, have taught programming (lab) courses in a deemed University in India at M.Tech. (CS) and M.Sc. (Maths & CS) level and been a technical and programming consultant for M.Tech. (CS) projects and M.Sc. (Maths & CS) dissertation computer projects.

Currently am offering Free Seva in the following activities:

- "Service to Society" Free and Open Source IT software development especially aimed at rural Indian society via <http://raviiyer.org>.
- Peaceful and amicable, Indian CS & IT academic reform activism via <http://eklavyasai.blogspot.com/p/index.html>.

## Technical Areas worked on while in Software Industry

Architecture, Design, Coding and/or teaching/mentoring roles in/using:

- Web technologies using C#/ASP.Net and Java 2 Enterprise Ed.
- OOAD incl. Design Patterns and UML
- GUI Design
- TCP/IP socket prog, VoIP MS API
- SMTP gateway, X.400, X.500, Sendmail
- Banyan Vines Network OS, RPC
- Videotex
- IIS & Netscape web server API
- Web Services (SOAP)
- Document Imaging Indexing systems
- C/C++, STL, Visual C++/MFC, Visual Basic, Oracle, Sql Server, Informix, PowerBuilder, SQLWindows, X-Windows API, Wang VS Assembler, COBOL
- Microsoft Windows, Unix/Linux/Solaris and Wang VS operating systems.
- Misc: ATL/COM, Multi-threading, XML, Windows Hooks

## Academic Teaching Experience Details

Have taught (and introduced most of) the following (lab.) courses at M.Tech., M.Sc. & B.Sc. levels in a Mathematics & Computer Science department of a deemed university in Andhra Pradesh, India:

- Open Source Web Technology (As applied to a free school educational web portal)
- Advanced Unix Programming
- Network Programming (TCP/IP Sockets)
- Multi-Threaded Programming
- Minix/Linux Kernel Internals
- C++ Programming
- C Programming
- Java Web Programming
- C# & ASP.Net Web Programming
- VC++/MFC/Windows Programming

## Technical & Programming Consultancy in Academia

Was technical and programming consultant for M.Tech. (CS) projects in the following technical areas:

- Ontology for Indian school education
- Re-engineering & Object Oriented Analysis & Design (OOAD)
- Web Services Security & Security of Coalition of Web Services
- File systems in Linux/Minix
- VC++ programming, detecting & debugging memory leaks

Was technical and programming consultant for M.Sc. (Maths & CS) Dissertation computer projects involving the following technical & functional areas.

Technical areas:

- ASP.Net Web programming
- Database design and programming
- Graphical User Interface (GUI) design

Functional areas:

- E-learning of conversational English from Telugu & vice-versa.
- Agricultural Portal
- Department research publications database
- Hostel Railway Reservation

## Academic Publication Record

Have published the following academic papers:

1. Ravi S. Iyer, "Improve the Practice of Software Development by Having a Software Development Career Track in CS & IT Academia", arxiv.org preprint, Feb. 2012, submitted to ACM Inroads in Mar. 2012. Preprint Abstract: <http://arxiv.org/abs/1202.1715>; Preprint Pdf: <http://arxiv.org/pdf/1202.1715>.
2. A.Sateesh, R.Iyer, G.V.Prabhakar Rao, S.Kapoor and R.Mukkamala, "SPN: A Web Services Security Policy Negotiator", International Conference on Web Engineering and Applications (ICWA), Bhubaneswar, pp 137-148, December 2007.
3. S.Samath, R.Iyer, K.S.Sridharan, R.Mukkamala and S.Kapoor, "Secure Web-based Sharing of Health Information Services Using Ad-hoc Dynamic Coalitions", International Conference on Information Technology : New Generations (ITNG), Las Vegas, pp 297-302, April 2008. [http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?arnumber=4492495](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4492495).

## CS & IT Academic Reform Activism

From Sept. 2011 onwards, using the pen-name of Eklavya Sai Maalik, I have been writing on a blog focused on peaceful and amicable, Indian CS & IT academic reform activism. I have contacted the (Union) Ministry of Human Resource Development, All India Council of Technical Education (AICTE) & University Grants Commission (UGC) and drawn their attention to the first academic paper listed above ("Improve the Practice of Software Development ...") and the following blog posts:

1. CS & IT Academia: Serious Systemic Problems?: <http://eklavyasai.blogspot.com/2011/09/cs-it-academia-serious-systemic.html>
2. CS & IT Academia: How To Relieve Suffering of Students, Parents and Employers: <http://eklavyasai.blogspot.com/2011/11/cs-it-academia-suffering-students.html>
3. Is a PhD in CS/IT Necessarily a Good Teacher?: <http://eklavyasai.blogspot.com/2011/09/is-phd-in-csit-necessarily-good-teacher.html>
4. CS & IT Academia: How to Teach Programming?: <http://eklavyasai.blogspot.com/2011/09/cs-it-chittar-comment-response.html>

I have also informed the Prime Minister's Office, Planning Commission, software industry bodies, leading software companies and the Andhra Pradesh Ministry of Information Technology & Communications of this matter.

## Academic Qualification

B.Sc. (Physics) in 1983.

Dropped out of M.Sc. (Physics) due to financial problems. That turned out to be a blessing in disguise as I was able to enter the software industry at a younger age ☺.

## Age

49 years