

Janak J Parekh

Computer Scientist, Software Engineer

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Objective

To build great technology, with a focused, goal-driven team.

Academic Experience

Ph.D. in Computer Science; Columbia University, New York, NY — 2001-Present

Expected defense in fall 2006. Anticipated thesis title: "Privacy-Preserving Distributed Event Correlation". Research focus on reliable distributed software systems, network security, and intrusion detection.

M.S. in Computer Science; Columbia University, New York, NY — 1999-2001

Emphasis on research in software tools, collaborative environments, run-time event monitoring infrastructures. Strong academic standing (3.82 GPA).

B.S. in Computer Science; Columbia University, New York, NY — 1995-1999

Emphases on systems and intelligent systems. Strong academic standing (3.73 GPA cumulative, 3.82 GPA in major; Dean's List every semester).

Work Experience

Graduate Research Assistant, Intrusion Detection Systems Lab, Columbia University, New York, NY — 2003-Present

Engaged in collaborative intrusion detection research, culminating in the Worminator project (<http://worminator.cs.columbia.edu>), an infrastructure for privacy-preserving intrusion alert sharing. Administered 5+ servers running Linux and Windows.

Preceptor, Department of Computer Science, Columbia University, New York, NY — 2001-2006

Taught six three-credit undergraduate courses as a graduate instructor (preceptor); topics included Introduction to Computer Science, Data Structures, Discrete Math, and Software Engineering, with class sizes up to 92 students. Received high evaluation scores (average 4.5/5.0).

Software Developer, HydraWEB Technologies Inc., New York, NY — 2000-2001

Developed additions and modified existing infrastructure of the company's primary product, HydraOS, used in their commercial load-balancers. Low-level systems programming in BSDi UNIX and Linux, protocol implementation, and maintenance. Coordinated software, hardware design and infrastructure with the engineering team.

Co-Founder/Technical Lead, Altiverse Systems, Inc., New York, NY — 1999-2000

Cofounded Internet startup specializing in distributed 3D Internet technologies. Played major role in product development and product specifications, particularly server-side network infrastructure, tools and products to realize the company's goals. Assisted in development of the business plan, hiring and employee coordination, and office systems maintenance.

Graduate Research Assistant, System Administrator, Project Student, Programming Systems Lab, Columbia University, New York, NY — 1997-Present

Engaged in a variety of research, primarily involving collaboration tools and event infrastructures. Primary research involved XUES, an event capture and event recognition framework for heterogeneous network/device management and monitoring. Administered 10+ workstations and 5+ servers running Windows, Linux, and Solaris.

Teaching Assistant and Recitation Leader, Columbia University, New York, NY — 1996-2001

Teaching assistant (TA) and recitation leader for 8 semesters in a broad variety of topics, including Intro to CS, Data Structures, Discrete Math, and Graph Theory.

Chief Engineer and IT Specialist, Jantek Computers, Manhasset, NY — 1982-Present

Specialize in end-user and corporate IT consulting, dealing with PCs, PC networks, and software development. Involved in long-term projects and relationships on a personal basis with many customers, including small-to-medium organizations in distribution, retail, labor, and manufacturing. Professional instruction for individuals and corporate groups.

Skills, Certifications, Other Metadata

Computing and software development

- Extensive background in operating systems, networks, Internet platforms, databases. Familiarity with AI, UI, graph theory, algorithm analysis, computer architecture
- Large-scale software development experience in C and Java
- Familiarity with other languages: C++, Python, LISP, Visual Basic, SQL, assembly (MIPS, ARM), HTML, XML, bash, others

IT/Admin

- *Operating systems/platforms:* Windows (32-bit, 16-bit, CE), UNIX (Solaris, SCO Xenix/Unix, Linux, BSD, Mac OS X), NetWare, others
- *Networks:* Windows Active Directory, NetWare, UNIX, LAN/WAN hardware
- *Internet services:* Web (Apache, IIS, JSP/Servlet), Mail (qmail, exim, postfix, Microsoft Exchange), SQL (MySQL, PostgreSQL, Microsoft SQL Server), TCP/IP services (BIND/DNS, NAT, DHCP, routing, firewalling)
- *Certifications:* Microsoft Certified Professional (1996-), Novell Certified Netware Engineer (1994-)

Awards, Affiliations, Hobbies

- *Awards:* Microsoft Most Valuable Professional, Mobile Devices (2005-2006); SEAS Outstanding Teaching Assistant Awards (2000-2001); Columbia CS Theodore Bashkow undergraduate research award (1999); Honorable Mention, Computing Research Association, Outstanding Undergraduate Research Award (1998)
- *Affiliations:* Member, Association of Computing Machinery, national organization (1997-); Member, Tau Beta Pi engineering honor society (1997-); Secretary, graduate student advisor, and programming contest coach, Columbia chapter of the Association of Computing Machinery (1997-2006)
- *Hobbies:* Handheld computing, baseball, classical music

References (others available upon request)

1. Gail E. Kaiser, Professor, Columbia University Department of Computer Science; kaiser@cs.columbia.edu
2. Salvatore J. Stolfo, Professor, Columbia University Department of Computer Science; sal@cs.columbia.edu
3. Kenan Peters, former VP of Engineering, HydraWEB Technologies; kenan.peters@citigroup.com