**Niranjan Nagaraju**

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| CONTACT  INFORMATION | No. 83, H. Colony,  2nd Cross, Indiranagar,  Bangalore - 560038  *Mobile:* +91 9900400100 *E-mail:* niranjan.nagaraju@gmail.com |
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| Career  Interests | Algorithms Design and Optimization  TCP/IP Networking  Cryptography - Algorithms and applications to network security |
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| Education | **Visvesvaraya Technological University**, PES Institute of Technology, Bangalore  *Bachelor of Engineering*, Computer Science **2002-2006**  Aggregate: 73.3 % |
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| Technical  Skills | Programming Languages: C, C++, Python, Haskell, Linux Shell scripting (Bash)  Tools: Oprofile, Valgrind, W3af, GDB, Vim, Emacs  Operating Systems: Windows, Linux, Mac OS X  Github: [Link to Github Profile](https://github.com/niranjan-nagaraju/) |
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| Professional  Experience | **5.6** years of design and development experience in System Programming, Security and TCP/IP Networking.  [RSA Security](http://www.rsa.com/), Bangalore  *Software Engineer* **October 2010 – Present**  ***RSA Access Manager (AxM) Web Agents***   * Implemented features for Intersite Single Sign-on (ISSO), Securing against arbitrary URL redirects (trusted domains). * Security audit of AxM Web agents using w3af/webscarab, Fortify and fixed critical security issues. * Worked on extending AxM Web Agents to support Email-based RSA Adaptive Authentication. * Responsible for fixing high-priority customer issues.   [Narus Networks](http://www.narus.com/), Bangalore  *Software Engineer* **June 2008 - March 2010**  ***Multi-threading processing layer***   * Worked on the development of an actor-based concurrent programming language to introduce multi-threaded efficiency in the processing layer. * Implemented Input/output modules to be used in the new language dialects. * Profiling and performance tuning (Oprofile and Valgrind)   ***SQL Loader***   * Developed a Narus component to load capture layer metadata into an SQL database using unixODBC library.   ***Packet Loader***   * Developed a Narus component to analyze capture layer events/data based on user-configured targets and write the matching packets to PCAP and ETSI compliant Metadata files   [CoreEl Technologies](http://www.coreel.com/), Bangalore  *Design Engineer* **July 2006 - June 2008**  ***TOE (TCP/IPv4 Offload Engine)***   * Developed a network device driver interface to load the PCI-e based hardware stack. * Design and implementation of a dual stack architecture for the TOE stack to coexist with the Linux TCP/IP stack. * Implemented ICMP echo (Ping) and ARP handling modules in software   ***TIP6E (TCP/IPv6 Offload Engine****)*   * Designed and implemented ICMPv6 NDP (Neighbor Discovery Protocol) and MLD(Multicast Listener Discovery) in software to be integrated with the rest of the IPv6 stack in the TIP6E hardware FPGA   ***RPR (Resilient Packet Ring)***   * Implemented IOCTL interfaces for configuring the RPR stack in hardware. (RPR is a dual-ring based MAN (Metropolitan Area Network) technology). |
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| Corporate  TRAINING | [Sandeepani School of VLSI Design](http://www.sandeepani-vlsi.com/), Bangalore **December 2006 - March 2007**  Taught C fundamentals and Data structures courses at Sandeepani, a corporate training division of CoreEl Technologies. |
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| Internship | **Hewlett Packard**, Bangalore  ***Gelato Vanilla Project/Apache*** **February 2006 - April 2006**  Benchmarking and profiling the performance of Apache server on Linux/Itanium. |
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| Academic Projects | ***S.M.A.R.T. Downloader***   * A Download manager written in C#.net with zip preview, media preview, FTP support, auto-resume and concurrent multi-part download capabilities.   ***Illuminati***   * An MS-Paint like graphics editor program written in C/GTK+ on Linux. |
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| References | Available upon request |