

Nandeep Mali

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Objective:

Developing my understanding of front-end engineering, operating systems, game design and open source tools along with continued contribution to the open source community.

Education:

High School [2004]

Our Own English High School
Dubai, UAE

Undergraduate (B. Tech, Computer Engineering) [2008]

Malaviya National Institute of Technology
Jaipur, India

Work Experience:

Currently working at Sarai (<http://www.sarai.net>) [since June 2008]

This job involves promoting open source to Indian Community and contributing to various open source organizations. Working on various development related projects like bringing Indic Support to Scribus, Indic support tools, etc. and promoting FLOSS by coordinating with NGOs and helping them to adopt it. Funded by European Union under the FLOSSINCLUDE project. (<http://www.flossinclude.org/>)

Currently consulting for Discussion Networks Pty Ltd [since September 2009]

Working on forums.com website. Writing server side daemons in Python to handle high load and parallelize tasks. Involves working with Key-Value pair databases and Memcached.

Setting up a 3DSecure system on Openboxbuilder.com and Mossriver.net [April 2009]

Developed two Drupal/Ubercart Modules and patched another to enable 3DSecure transactions for above two merchant sites. The code was released under LGPL and was funded by Edward Terry (owner of sites). (Links: <http://www.ubercart.org/contrib/10652>, <http://www.ubercart.org/contrib/10653>)

Appalachian Trail Viewer using Google Maps [January 2009]

Worked on optimizing the trail viewer for ATC (<http://www.appalachiantrail.org/>). This involved showing a 300,000 point trail on Google Maps with reasonable speed and efficiency.

Google Summer of Code for Gentoo Linux Project [May 2008 - August 2008]

Developed a web-based WYSIWYM (What-You-See-Is-What-You-Mean) editor for GuideXML (an XML flavor for Gentoo Documentation).

(GSoC page: <http://code.google.com/soc/2008/gentoo/appinfo.html?csaid=1948EE5DE88D2087>)

OpenSpaceForum TikiWiki to Drupal Migration [September 2009 – Present]

Openspaceforum.net required a TikiWiki to Drupal changeover to better manage the content. Involves coding a data migration tool and other Drupal CMS setup jobs.

Community projects:

Beacon (<http://beaconeditor.org>) [September 2008 - Present]

Continued from summer of code project, the tool gained traction and is now currently being developed with the help of several developers into a generic editor that will support a wider range of documents through a plugin based system along with support for real-time collaboration. Technically mentored a student in GSoC 2009 for Fedora to get it working for the Docbook XML format. Official part of Fedora repositories now and in the process of being included in Gentoo.

Project White Mod [January 2009 - August 2009]

A Creative Commons Licensed Mod made from the Unreal 3 Engine. Working with a diverse team of artists, mappers, sound engineers and developers around the globe. (<http://whitemod.com>)

Beli [April 2009 - Present]

A scriptable game engine project being developed with Qt and OpenGL. Will be released under GPLv3. (<http://code.google.com/p/beli>)

Community Activities:

1. Serving as an upstream technical guide/mentor for a Beacon based project in GSoC 2009, Fedora.
2. Technical support and administration of Sarai FLOSS Fellowships.
3. Organizer of many Workshops, funded by Sarai (NIXI and European Union).
4. Co-organized Software Freedom Day in 2008 at Sarai.
5. Attended various FOSS related events like Freed.in (2009) and OSSCamps.
6. Taught FOSS tools to underprivileged children in Delhi

Previous Work and Hobby Projects:

miniorb.in

My online portfolio and playground.

rebati.org [2008]

Setup a customized Wordpress theme for the Rebaty Project's official homepage. The theme was developed to use Wordpress as a light-weight CMS.

compact.com.sg [2007]

Developed the corporate website of Compact Singapore Pte. Ltd. A simple self made content management system made in PHP to suit the needs of a start up company.

OS Tools [January 2008 - May 2008]

Developed practical understanding of operation systems by simulating various OS tools like Shell, system profiler, etc. Done as a part of my final year Operating System course in Undergraduate degree.

Reliability studies in Nanotechnology [January 2008 - May 2008]

Final Year Project for Undergraduate degree. Studies the fabrication techniques of nano-scale devices and researched on improving the current methods using MATLAB Simulations.

Implementing uIP TCP/IP stack on a 8086 microcontroller [June 2007 - August 2007]

Summer training in 2007 at Ministry of Information Technology. An 8086 micro-controller was made internet aware by implementing uIP stack and wrote a serial interface for it's communication with a normal computer.

LAN chat tool [December 2005]

Developed as my 4th Semester Project in Object Oriented Design course. Used the Jabber protocol to connect clients to a server.

Adaptive Quiz Engine [2004]

Developed as my 12th Grade Yearly Project. This quiz engine adapted to a user's performance by varying the difficulty of questions asked.

Car Rental Agency accounting software [2003]

Developed as my 11th Grade Yearly Project. A standard inventory control and billing software written using a flat file database.

Other Activities and Hobbies:

- Otaku. (<http://myanimelist.net/animelist/n9986>)
- Gaming (Won prizes in Multiple LAN-Gaming Competitions)
- Writing short stories.
- Reading books (Tolkien Fiction and Roald Dahl short stories)
- Computer Graphic Designing.
- Honors Certificate in Gulf Mathematics Olympiad.
- Model Kit Construction.

Skills:

Languages Known: Javascript, PHP, HTML, CSS

Languages Acquainted with: Python, XML, XSL, C, C++, Java, UnrealScript

Toolkits and Libraries: Qt, OpenGL, DirectX, Panda3D, PyGame

Tools: Visual Studio, Codeblocks, Netbeans, Eclipse, Adobe Photoshop, TextMate

Operating Systems: Linux, Mac OS X, Windows 9x/2000/XP, OpenSolaris

Database: MySQL, Key Value Pair Databases.

Version Control: SVN, GIT

Having knowledge of project management tools and Agile Development Methodologies.