# Deepak Thukral

ul. Olejarna 7/6, Gdansk 80-843, Poland
+48 696 983 028
iapain@gmail.com, thukrald@student.mini.pw.edu.pl
http://gamma.mini.pw.edu.pl/~thukrald/

## OBJECTIVE

To design and develop cutting edge computer applications to evolve digital world further.

## EDUCATION

Full time M.S (mgr.)[Oct 2007 - Oct 2009 (expected)] at Warsaw University of Technology (**Politechnika Warszawska**) in **Mathematics and Informatics (MiNI)**
Full time B.S (Inz.) [Jul 2003- May 2007] at Indraprastha University, Delhi in **Computer Science and Engineering**

## PROJECT WORK

- Lead Architecture and Developer of Eviscape Web **API (OAuth enabled)**. Also desgined a mechanism to allow developers to create local API Apps for Eviscape.

- Crawling, clustering and generating trends among real-estate listings on WWW based (Master Thesis). Also, developed a novel clustering technique to cluster datum with missing features. Implementation in **Python and MySQL**.

- Developed a social network sytem for propagation, filtering and recommendation of information in **Python, Postgresql** (Intern at Musicpictures Ltd, Berlin, Germany)

- Pattern Discovery allowing multiple score function, substitution matrices and wildcard, for a bioinformatics project in **C++**. (Based on original publication by A. Mancheron and I. Rusu, University de Nantes.)

- Computer vision based on motion tracking system using Adaptive threshold and k-mean cluster for extraction and segmentation. Implemented in **python, PIL, SciPy and Matlab.**

- $PC^2$ alternative: gCoder - A GUI server client application to organize automated online programming competetion. Developed in **Python and Tk/Tcl**.

- EyBO (Exchange your Books Online) a collaborative book review and auction portal developed in **PHP** and **MySQL** as backend.

- A crawler based system for information retrieval in **C++ and python**. Through crawled information, detected various replicas of WebPages i.e. mirror pages using CPD algorithm

- Other Open Source contributions **Django Project**, **gCoder**, **UnoformServer**

## ACADEMIC DETAILS

- M.S (mgr.) GPA 4.15/5
- B.S (inz.) average percentage: 76.2 %

## WORK EXPERIENCES

- **Research Consultant - TheManCan LLC, CA, USA** Research and Develop an Analytics system to track WWW or so called Web 2.0 data.
- **External Consultant(Freelance/onsite) - TESOBE/Musicpictures, Berlin, Germany (April 07 - Present)**: Responsible for developing a social network in **Python/Django /pgSQL/Javascript/AJAX.**
- **Research Consultant(Contract) - TellyTopia Inc, Santa Clara, CA, USA(October 07 - Feb 09)**: Responsible for research and development of a video indexing system in **C++/Python/pgSQL.** on distributed enviornment like **Hadoop.**

## INTERNSHIPS

- Musicpictures Ltd, Berlin, Germany (Paid Internship Jan 2007-Mar2007): Research and development of a self propagation of information and recommendation in a social network.
- Hewlett Packard, India (June 2005-July2005): Worked as UNIX administration trainee on HP-UX 10.2 workstations and HP-UX servers.

## COMPUTER AND OTHER SKILLS

Skills: **Professional Programming**, **Data Mining**, **IR Systems**, **Analytics**, **Web Development**, **Networking**, **System Administration**

Languages: **Python, C/C++, Erlang**, Ruby, Scala, Lisp, C#, PHP, Java, Javascript (jQuery, mootools, yui and prototype)
RDBMS: Postgresql, MySQL, Oracle 10g, MSSQL
Non relational DB: CouchDB, MongoDB, Tokyo Cabinet, Google's BigTable
Servers and Tools: **Hadoop, Apache 1.x - 2.x, lighttpd, nginx**, SVN, CVS, git, Mathematica 5x, R, MatLab (Basic)
Platforms: Linux, Unix, Windows, HP-UX 10.2

Web Frameworks: Django(Django ORM), Pylons (SQLAlchemey), Tg(SQLAlchemey), Zope, Plone, RoR, Liftweb

Spoken languages: **English (TOEFL, FCE), Hindi (Native), Polish (Limited)**

## PUBLICATIONS

- Master Thesis: Retrieving and clustering real-estate listings (incl. an effective approach to cluster real-estate data from www)(Oct 2009)
- Publication: Personalized dynamic information delivery in social netowork (March 2007)
- Publication: The PageRank Vector (June 2004)

## PRIZES

- Grabbed Dean's scholarship for acedemic performace during first year of Master studies in Politechnika Warszawska (Sep 2008).
- Among top 600 algorithm coders in **Google CodeJam 2006**. (Sep 2006)
- Grabbed 4th position in All Asia ICPC held in Lahore (Mar 2006)
- MSIT Annual Tech Fest Virus 2k4 1st Prize in TechSpider, Designing website for online booking of movie ticket (Feb 2005)
- Hans Raj Annual Fest C/C++ Programming 1st Prize (Feb 2005)
- **Contest Winner for IAO Login (Oct 2004) (Pearson SAMS Publication, US)**
- Best Scientific model design in Delhi State science fair, Gold Medal. (Nov 2001)
- Merit Holder in 2nd National Science Olympiad. (MAR 2000)

## INTEREST & HOBBIES

Traveling is what I do when I have free time. I have made very interesting trips to Himalaya including a bicycle trip to Leh from Manali. I also love reading and watching movies. In technical terms, Data Mining, virtual reality and information retrieval / harvesting are my area of interest.

## REFERENCES

- Dr. Maciej Grzenda (MiNI, Politechnika Warszawa, grzendam--NOSPAM [at] mini.pw.edu.pl)
- Simon Redfern(Manager, Musicpictures Ltd. Berlin Germany - simon--NOSPAM[at]musicpictues.com)

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Wyrażam zgodę na przetwarzanie moich danych osobowych zawartych w mojej ofercie pracy dla potrzeb niezbędnych do realizacji procesu rekrutacji zgodnie z Ustawą z dn.29.08.1997 r. o Ochronie Danych Osobowych (tekst jednolity Dz. U. z 2002 r. nr 101 poz. 926 z późn. zm.)