

OBJECTIVE

Seeking a challenging full-time opportunity to work in a dynamic environment where innovation and education are valued and my skills in software development would be utilized.

EDUCATION

Master of Science, Computer Science - Indiana University, Bloomington, Indiana **May 2009**
GPA = 3.7

Bachelor of Engineering, Computer Engineering - University of Mumbai, India **June 2007**
GPA = 3.6

COURSE RELEVANT PROJECTS

Twitter Analytics using Web Mining **Feb 2009**
Developed *User Recommendation Engine* for [Twitter](#) users using Hierarchical Agglomerative Clustering (unsupervised learning) algorithm on short texts (tweets), existing social network, location, timing and other such metrics. In addition to developing the codebase in Java, PHP, MySQL platform; we conducted a user study and got encouraging results. [Link to the poster paper](#)

Fluency – Java based Application Development Program **Oct 2008**
Developed *Fluency* – a Java Application that lets non-programmers develop their own applications and release working programs. Project involved usage of various design patterns like Command, Composite, Factory etc. in an industry like setup where I worked with a big team on an inherited code base and using the existing documentation to further develop the application. Extensively used CVS, JIRA – a bug tracker system, Fisheye - code review tool and wrote JUnit tests. [Link to the project](#)

Human Resources Web Portal **Aug 2007**
Developed an online job application system in PHP, MySql and AJAX for the HR department, Indiana University as a project for Software Engineering course. Worked in a team using Software engineering concepts implementing the SDLC: Requirement, Analysis, Designing, Development and Testing while documenting every aspect of it.

RSA implementation of Threshold Cryptosystem **Sep 2007**
Developed a system for implementing fault-tolerant group communication system using Threshold Cryptosystem for an unsecure Mobile Ad Hoc Network - providing Availability and Confidentiality. Perl and C++ programming languages were used to develop the system.

'Short Message Service' based Device Controlling (Smart House) **May 2007**
Using Embedded C, PCB Designing, Micro-controller Programming developed an Embedded System that controlled the household appliances via a text message or SMS.

WORK RELEVANT PROJECTS

Information Visualization Lab, IU – Ongoing **Feb 2009**
Currently working at [Information Visualization Lab](#), IU where I am part of the core development team that builds tools for large scale network analysis, and modeling and visualizing information in Bio-medical, Social Science and Physics domain. Here I am part of projects such as,

- *Epidemics Cyberinfrastructure (EpiC)* – A NIH funded project that will support the integration of large numbers of complex data sets at a variety of levels, e.g., population density, patient records, and social behavior, as well as state of the art analysis, modeling, and visualization tools capable of dealing with non-linear and complex phenomena emerging in large populations. [Link to the project](#)
- *Network Workbench (NWB)* – A NSF funded project that designs, serves and evaluates a tool for network analysis, modeling and visualization that facilitates operations on varied datasets using different algorithms. [Link to the project](#)
- *Science Policy Tool (SciPol)* – A NSF funded project that facilitates a detailed analysis of the information needs of a representative set of science policy makers and the design of a prototypical tool that detects and communicates structure, patterns, trends and outliers in science and technology data. [Link to the project](#)

Office of Registrar, IU Web Portal - Ongoing**June 2008**

Migrated the old website of Office of Registrar from ASP to PHP platform and written PERL scripts for automating the migration. Worked with the tech team to develop various tools for the benefit of the office administration using PHP, JavaScript, AJAX, Oracle. Currently working on integrating FedEx web service with Registrar applications. [Link to the project](#)

Investment Banking Network Web Portal**Aug 2008 – Jan 2009**

Developed an online contact management system for the School of Business, Indiana University using ColdFusion, Oracle, JavaScript. In addition to maintaining the web portal, job responsibilities included developing new functionalities and maintaining their other web portals. [Link 1](#) & [Link 2](#)

TECHNICAL EXPERTISE**Languages**

PHP, Java, C, Python, ColdFusion, Perl, JavaScript, XML, CSS, HTML/XHTML, OpenGL

Databases

MySQL, Oracle, Sqlite

Frameworks

Django, jQuery

Concepts

OOD, Unit, Module, and Systems Testing, SDLC, MVC, AJAX, JSON, REST/SOAP

Software

Eclipse, Oracle, Aqua Data Studio, Version Control Systems, Adobe Photoshop, Adobe Audition, Adobe Premiere, Microsoft Office Suite, LAMP

COURSE WORK UNDERTAKEN

- [Web Mining](#)
- [Java Design Patterns](#)
- [Advanced Database Concepts](#)
- [Semantic Web](#)
- [Software Engineering](#)
- [Software Engineering Management](#)
- [Theory of Computing](#)
- [Information Security](#)

EXTRA-CURRICULAR ACTIVITIES

- **Won in Junkyard Wars** held at PROTOCOL '04 and TechTrix '04 (Inter Collegiate IEEE Festival).
- Did **Volunteering for Sponsorship & Web-Designing Event** for PROTOCOL '04
- Participated in **Robotics** at TECHTRIX '05 (IEEE Inter Collegiate Competition).
- **Won in Junkyard Wars** held at PARICHAY '06 (Inter Collegiate Cultural Festival).