

Sumit Gupta

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INTERESTS

Software Applications, Database Management, Data Structures, Web Development, Internet Applications

EDUCATION

- **Master of Information Management, Maryland's iSchool** (August 2009)
University of Maryland, College Park, MD (GPA: 3.9/4.0)
Relevant Coursework: Information Architecture, Web Enabled Databases, Information Technology and Organizational Context, Object Oriented Programming, Software Design & Implementation, Solving Problems in Information Management, Organizational & Business Process Modeling, Management of Information Programs and Services, Users & Use Context
- **Bachelor of Technology, Department of Mechanical Engineering** (May 2007)
National Institute of Technology, Kurukshetra, India (GPA: 8.6/10.0)
Coursework: Operational Research, Industrial Engineering, Statistical Quality Control, Business Management, Computer Aided Design, Cost Control, Machine Design

COMPUTER SKILLS

- Languages : Java, C, C++, VB, Perl, FOX-PRO, BASIC
- Database Management : MySQL, SQL Server, ORACLE, MS Access
- Web Development : PHP, ColdFusion, HTML, CSS, JavaScript, XML
- Tools : MS Office, Drupal, Wordpress, UML, PLC, Adobe Acrobat, Dreamweaver, Photoshop
- CAD Packages : Solid Works, AutoCAD, CATIA, Pro/E
- Operating Systems : Windows (XP/Vista), Linux, Mac, MS DOS

PROFESSIONAL EXPERIENCE

Developer - Programmer

The Bivings Group, LLC, Washington DC (June 2009 - present)

- Working with Programming and Technical Group, assisting in the **web-based application development** work for the clients - development done mainly using PHP
- Amongst the Lead Programmers for the famous application **Impact Watch** – an easy-to-use software for monitoring and measuring the media presence. Responsible for handling various clients' requirements and also in testing and debugging various functionalities of the application
- Developing new tools to generate and display data gathered from surveys and users information for the US popular **Pickens Plan** - a great initiative for enhancing US economy in the energy sector
- Create **plug-ins** for various websites based on requirements to develop new functionalities and testing them
- Interacting with the Client Services staff and holding meetings in order to understand client's needs

Graduate Assistant - Webmaster

(Sep 2008 - present)

Department of Kinesiology, School of Public Health, University of Maryland, College Park

- Develop, maintain and modify portions of the department's official Web site using scripting tools ColdFusion and PHP
- Conceptualizing, designing and deploying various online systems for the department, viz. **Online Appointment System, Duplication system**
- Using Adobe Suite, create new Electronic Business Office forms for the easy and simple online form fill up and submission
- Using Oracle and MySQL, **design and maintain database** of entire faculty, staff and students in the department
- Responsible for handling the overall website's structure and the control-flow using **Information Architecture** concepts
- Design and develop new Web sites for various conferences and colloquiums and also the departmental labs associated

Website and Database Development Intern

(July 2008 - August 2008)

Conservation International, Arlington, VA

- Conceptualized and developed an intensive database in MySQL to support the **Project Assessment Framework**
- Designed and implemented the data entry forms to keep track of all projects worldwide using PHP and JavaScript
- Enhanced the mapping portion of **IMAP** (under development) and migrated the content to **Google Map structure**
- Updated the Coalition Against Wildlife Trafficking (CAWT) website with relevant news and announcements

Graduate Teaching Assistant

(August 2007- June 2008)

Department of Physics and Mechanical Engineering, University of Maryland, College Park

- Assisted various professors in teaching undergraduate courses to the freshmen and sophomore students
- Administered the numerous labs associated with the courses and helped students understand the practical applications
- Maintained a database of all students to help the professors in final grading

ACADEMIC PROJECTS UNDERTAKEN

Ontology Framework – American Institute of Research (AIR)

- Developed an ontology structure based on the ‘tree hierarchy’ concept to link it to database items for one of AIR’s application – **TechMatrix**
- The ontology is capable to generate the parent-child relationships amongst the items/products
- Built a **search system** within the tree wherein a sub-tree of children nodes is retrieved back for any product searched within the ontology, nodes further give all the information pertaining to a given product

Samsung Funded Project: Enron Email Collection

- Studied and analyzed the huge **Enron Email collection** using the Perl crawlers and scripts
- Estimated trust by analyzing user behavior and interpersonal/social relationships from the email collection
- Generated a tabular data out of the above analysis to further draw out trends in communication behaviors
- This analysis could be used in building many applications, viz. developing cell-phone/ smart-phone email applications

Web Development Applications: Books Collection/Database and a Restaurant Recommender System

- Conceptualized and created an application for accessing a huge database of books using server-side scripts while providing the user a highly interactive and convenient UI at the front-end using PHP and MySQL
- Designed and created a ‘Restaurant Recommender System’ in a team of four; on the similar lines by populating a huge database of nearby restaurants and then putting forth a front end for providing recommendations to user according to his interests
- Designed the ‘Publications Page’ for a faculty member for a course project. The Web page provides the flexibility to the client (faculty member) to make any updates or changes by merely editing the database in simple text using XML

Software Applications (Games): Tic Tac Toe and SuDoKu

- Studied the **Software Development Life Cycle (SDLC)** and built the popular ‘Sudoku game’ application using VB again in a team of four students, based on the requirements provided by the other team
- Developed a highly interactive game – Tic Tac Toe using **CGIs in Perl** based on the various test cases provided in the requirements documents. Tested the system against all possible iterations to remove any bugs in the system

Undergraduate Projects: CAD Software and PLC Tools

- Major Undergraduate Project using designing software tools Pro/E and CATIA to design various engine parts and assemblies using various designing tools. An interactive ‘Blower Assembly’ was successfully designed with a team of four students
- Minor Undergraduate Project on PLC (Programmable Logical Controllers) software tool that is used extensively in automation industry for mass production by drawing ladder diagrams and feeding their outputs to the robotic arms. Designed a highly efficient ‘University Lightning System’ using PLC ladders

REFERENCES

- Available on Request.