

Swamynathan Gopalsamy

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Education

San Jose State University, California

Class of 2011; Masters in Software Engineering

College of Engineering, Guindy - Anna University, Chennai, India

2002 to 2006; Bachelor of Technology in Information Technology

Graduated with 'First Class' Honors.

D.A.V Higher Secondary School, Chennai, India

2002; Higher Secondary Certificate

Percentage : 97.25

Work Experience

Web Developer at SlideShare, Delhi

Mar '08 to May '09

Worked as a web developer at Slideshare¹. Slideshare is a presentation media sharing website which is dubbed as the "youtube of powerpoints". We are a start-up and due to the small size of the team I've had my foot in areas such as Server Side programming, Front End Engineering, Systems management/automations and widgets development. I have gained good amount of knowledge on ruby on rails. I use Javascript Frameworks like Prototype & Scriptaculous to make the user interface more intuitive and pleasurable for the users. I'm also involved in building new features, brain storming algorithms in areas such as search and also front end engineering. Slideshare provides me with an excellent platform to use and further my skills in web development and programming in general.

Lead Developer for Yiktik

Dec '07 to Mar '08

Developed a web 2.0 website² from scratch running on LAMP architecture. Developed a rich User Interface complete with AJAX controls having an elegant CSS based design. The core of the system consists of a scalable design based on MVC architecture, resting on an in-house built framework. Was in charge of coming up with the main algorithms for the business logic. Had a good learning experience on fine tuning PHP and optimizing SQL queries. Also gained knowledge about industry standards and developmental practices.

Software Developer a Iflex Solutions, Chennai

Oct '06 to Dec '07

I worked for more than a year on several projects for Citigroup and other major corporations, at Iflex, delivering them industry standard scalable web sites using enterprise softwares and tools. Worked on J2EE and other java technologies using frameworks such as STRUTS and Spring. Also used database abstraction technologies like Hibernate on a back-end running MS-SQL Server. Gained fair knowledge on Adobe Flex during this period.

Skills

Web Technologies : Ruby on Rails, PHP, J2EE, HTML, CSS.

Frameworks & Technologies: Prototype, JQuery, Scriptaculous, HAML, Spring, STRUTS, CakePHP, Hibernate, DWR

Programming : C/C++, Java, VC++, Visual Basic, MAT Lab.

Database Technologies : MySQL, Oracle 8i, SQL Server and Microsoft Access.

Operating Systems : Mac, Unix/Linux, Windows NT.

Technical Tools: Apache Server, Tomcat, Weblogic, Mercury Mail, Subversion Version Control (SVN), Git, Microsoft Visual Source Safe (VSS).

Other Tools : Photoshop, GIMP, Soundforge, ACID, Vegas Video, FileZilla (Server + Client).

Achievements

Participated in Yahoo Hack Day '07, Bangalore

Developed a photo rating site called SlickRNot! at Yahoo Hack Day, Bangalore, which received good reviews from judges for its impressive interface and use of Web-APIs. Developed the server side code to obtain photos from Flickr via its API which could then be rated by users. Wrote the core entirely in PHP and used MySQL at the backend. Gained knowledge about APIs and Web Services. Made myself familiar with technologies like REST and RPC-XML. All this was done in less than 24 hours at a stretch.

Developer/Designer for Various Microsites

Worked on several microsite in my under graduate years. Developed various websites to college departments, cultural events and other occasions using PHP/MySQL and J2EE. I was in charge of both design and development. Used tools like Photoshop, GIMP and Paint.NET to create graphics ranging from simple badges, banners and buttons to simple Flash animations.

Areas of Interest

Web Development and Related Technologies.

Database Optimization.

Enterprise Technology and Software.

Computer networks and Security.

Social Computing.

Social Enterprise Software.

Academic Projects

Novella

Swamynathan G, Mayuresh H, Shalin Shroff : *An online book collaboration engine.*

An web application written completely in Ruby on Rails using HAML for templating and jQuery as the primary javascript framework. This application allows its members to collaboratively author a book/novel, wherein each user can add one or more chapters to an existing novel or create one of their own and invite their friends to work on it. Also features several social interactions such as commenting, reviews and ratings. Will soon be released to the open source community for further development.

H.E.M.S

Swamynathan G : *Highway Emissions Management System*

The Highway Emissions Monitoring System (HEMS) is a set a programs and components that are designed to collect, monitor and analyse emission data from everyday traffic on California roadways. The technical aspect of this project is focussed on harnessing the power of Enterprise Java Beans to provide a reliable system to provide the above mentioned functions. The approach is to divide the system into sub-systems or components which communicate with each other through a pre-defined interface, thus creating a framework for distributed computing. The outputted KML file is viewable on Google Maps (or Earth) and indicates the distribution of various pollutants across 3 important highways near the city of San Jose.

Final Year Under Graduate Thesis

Swamynathan G, Ashok Kumar T, Padmanaban R : *An Intelligent Shape Based Image Recognition System Using Shape Matrix*

A program which could Recognize simple polygons such as rectangle, square and shapes such as circle, semi-circle were successfully identified through this program which was programmed entirely in MAT Lab. Using a Shape Matrix the efficieny of the program was increased by as much as 30% compared to other traditional image recognition algorithms.

TAM TAB Converter

I, on behalf of the language lab in the Department of Computer Science and Engineering developed a program in Java using which a user can convert between two popular encoding schemes for the Tamil language, namely, TAM and TAB. It is a command line based program which takes in the name of file, the encoding scheme of it and the target encoding scheme as the input and spits out the desired output as the same filename with a 1 appended to it.

Other projects

Music Shop : A small online music shop offering latest CDs, modeled after Amazon.com, was developed using J2EE for the Web Technology course in final year.

Hospital Management System : Developed for DBMS course using Oracle 8i as backend and Visual Basic on the front end.

Bandwidth Analyzer : A small program written in C++ for Computer Networks course to analyze upload and download traffic.

Space Shooters : Shooting game developed in C++ for the Object Oriented Programming Lab.

eDrum : Developed an electronic drumkit from modified old computer keyboard circuits. A work in progress.

References

1. Viven Moses - vivmos@apple.com
2. Dharani Shankar - dharani.viji@vmvare.com
3. Fredrick Prashant - fred@cisco.com

Citations

1. Slideshare - <http://www.slideshare.net>
2. Yiktik - <http://www.yiktik.com>