

Swamynathan Gopalsamy

Chennai, India

+91 9899155774

swamyg84@gmail.com

Education

College of Engineering, Guindy - Anna University, Chennai

2002 to 2006; Bachelor of Technology in Information Technology

CGPA 6.505/10

D.A.V Higher Secondary School, Chennai

2002; Higher Secondary Certificate

Percentage 97.25

Work Experience

Software Engineer at SlideShare, Delhi

Mar '08 to Present

Working as a software engineer 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.

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 Flash animations.

Academic Projects

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 efficiency 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.

Areas of Interest

Human Computer Interaction.

Tangible Interfaces.

Ubiquitous Computing.

Collaborative Music Technologies and Networked Music.

Social Computing.

Digital Signal Processing.

Intelligent Systems.

Skills

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

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

Frameworks & Technologies: Hibernate, Spring, STRUTS, CakePHP, DWR.

Operating Systems : Unix, Linux, Windows NT.

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

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

Music : Play Drums, Basics of Music Theory, GarageBand, FL Studio, Cubase, Audacity, Cakewalk Pro.

Extra Curricular Activities

Was the drummer of college band and several other local rock bands.

Participated in National Sport Organization (NSO) activities in college.

Arranged Industrial visits in college to various companies.

Organizer/Volunteer for a number of college symposiums and cultural festivals.

References

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