

Swamynathan Gopalsamy

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Education

San Jose State University, California

Class of 2011 (Spring); 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

Software Engineer Intern at Manilla, San Francisco

Sep '10 to Present

Manilla⁴ is an online bill and finance management portal operating under the banner of the Hearst Corporation. My role as an intern in this company is to implement new features across the site, ranging from engineering the front-end user interface with JQuery and HTML/CSS to the back-end web extraction process. Manilla practices Agile and Extreme Programming paradigms with a strong stress on Pair Programming. I have learnt a good deal about these practices which I find to be more productive than the average startup environment. Being a very Test Driven company, I constantly write RSpec tests, using Factory Girl, Celerity and other testing technologies to check for the integrity of the application. I use Photoshop primarily to convert the mockups into fresh looking HTML. We currently use Rails3 and work over a stack of Ruby Enterprise Edition(REE). The company is also keen on moving towards the use of HTML5.

Ruby on Rails Engineering Intern at Zendesk, San Francisco

Jun '10 to Aug '10

At Zendesk³, I worked for 3 months as a ruby intern helping them in areas such as widget development, general bug fixing and pairing with developers to create new features. I was primarily involved in developing the LogMeIn widget for them and also working on areas such

as billing and the front-end. I had a great learning experience in getting to know more about Test Driven Development using tools such as Shoulda, Mocha and RSpec.

Web Developer at SlideShare, New Delhi, India

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". Being a dynamic start-up and due to the small size of the team I've had my foot in areas such as application programming, front end engineering and widgets development. I gained hands on working knowledge on ruby and rails. I also gained good amount of experience with jQuery, in this period, to make the user interface more intuitive and pleasurable for the users. I'm was primarily involved in building new features and fix existing bugs on the site but nonetheless was also involved in ground-up ranging from brain storming and implementing algorithms and database schemas for projects such as slideshare channels, contests and categories. Slideshare provided me with an excellent platform to use and further my skills in web development and also learn from the best of programmers in India.

Lead Developer for Yiktik

Dec '07 to Mar '08

I Developed Yiktik² from scratch running on LAMP architecture. Developed a rich User Interface complete with fancy AJAX controls having an elegant CSS grid based design. The core of the system consists of a scalable design based on a simple yet fast in-house built framework (no ORMs etc). I was in charge of all the aspects of the web app. 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.

Skills

Web Technologies

Ruby on Rails, PHP, J2EE, Javascript, HTML, CSS

Frameworks & Technologies	Prototype, JQuery, Scriptaculous, HAML, Shoulda, RSpec, Mocha, Spring, STRUTS, CakePHP, Hibernate, DWR
Programming Languages	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)

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 from flickr. The application obtains photos from Flickr via its API which would then be rated by users. Wrote the core entirely in PHP and used MySQL at the backend. Gained knowledge about APIs and RESTful Web Services. 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.

Social Enterprise Software.

Social Computing.

Computer networks and Security.

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. Has been released on [Github](#) for further development.

H.E.M.S

Swamynathan G : *Highway Emissions Management System*

The Highway Emissions Monitoring System (HEMS) is a set of distributed EJB components that are designed to collect, monitor and analyse emission data from everyday traffic on California roadways. The approach is to divide the system into sub-systems or components which communicate with each other through RMI using 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. (Code available upon request).

Final Year Under Graduate Thesis

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

A program, written entirely in MATLAB, which could recognize simple polygons such as rectangle, square and shapes such as circle and semi-circle. Using a Shape Matrix the efficiency of the program was increased by as much as 30%.

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.

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 during my under graduate final year in college.

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.

References

1. Adrian McDermott, VP of Engineering at Zendesk Inc - adrian@zendesk.com
2. Andres Camacho, VP of Engineering at Manilla Inc - andres@manilla.com
3. Andy Yeung, Supervisor at College of Business, SJSU - yeung_a@cob.sjsu.edu

Citations

1. Slideshare - <http://www.slideshare.net>
2. Yiktik - <http://www.yiktik.com>
3. Zendesk - <http://www.zendesk.com>
4. Manilla - <http://www.manilla.com>