

# C S SHYAM SUNDAR

Email: [csshamsundar@gmail.com](mailto:csshamsundar@gmail.com)

Blog: [www.cs3.name](http://www.cs3.name)

## OBJECTIVE

"To pursue challenging positions in software engineering in a contemporary, growing organization"

## PROFILE

- Developed and Extended **Automated Build Systems** that enable developers to build Enterprise Stacks
- Manage **Subversion SCM** and mirror SCM across geographical locations. Provision & Manage Build Servers.
- An accomplished Web applications developer using PHP and Rails Web framework with good development experience in building secure, stable & mission-critical applications with a rich understanding of client-side & server-side technologies.
- Experience in Database Programming, Development & Administration in **MySQL and PostgreSQL**.

## TECHNICAL SKILLS

### **O/S**

### **Programming Languages**

### **Scripting Languages**

### **Databases**

### **Version Control**

### **Build Environments**

### **Enterprise Stacks**

### **IDE**

### **Virtualization Technology**

### **Installer Technology**

### **Misc. Technology**

**Linux:** Gentoo, Ubuntu, SLES and RHEL.

**Windows:** Server 2000, Server 2003 and Server 2008.

Python, Visual Basic 6, VB.NET and Java.

PHP, Ruby (Rails), ASP, BASH, HTML, JavaScript and VBS.

MySQL, PostgreSQL and MS Access.

SVN and GIT

Mixed (NT and Linux),

PHP Stacks and Java Stacks (Tomcat)

Visual Studio, Zend Studio, Wing IDE and SlickEdit.

VMWare and Xen.

NSIS and Bitrock.

REMBO, Cygwin, AJAX and Portage.

## WORK EXPERIENCE - INDUSTRY

Currently employed in "**Thoughtworks Technologies Pvt Ltd**" as "**Consultant/Application Developer**" from July 2008 to Present

### **Project: Redesign 2008**

**Client:** [ Name protected under NDA ] ( A Popular publishing house based of US and UK )

*Jul 2008 to Present*

**Role:** Build Ops and Developer.

A Web 2.0 Rails web application, utilizing mashups from many 3d party systems. Features a full fledged Content Management System for its large database of books published and a first of a kind Authors Hub.

**Primary Responsibility:** Ensure Continuous Integration Process using **Cruise Control Continuous Integration System**.

**Additional Responsibilities:** Assisting the team in development of the web application.

**Environment:** Ruby, Rails, Mongrel and MySQL.

Previously employed in "**SpikeSource Inc**" as "**Associate Software Engineer**" from July 2007 to July 2008

### **Primary Responsibility:**

#### • **Build Ops**

- Maintain Build Servers in IDC.
  - Create and manage Build Images for a variety of hardware and OS environments including Virtual Machines.
  - Re-Image corrupted build images. ( Both Windows and Linux ) using REMBO technology.
- Enhance Build Automation
  - Manage "Stargate" - the old build system
    - Implemented incremental builds
  - Co-creator of "Redbrick" - the new build system
- Manage and Maintain SCM mirrors across geographical locations.

### **Additional Responsibilities:**

- Handle Build Operations round the clock during Product release cycles.
  - Provision build systems and perform full builds and push installers to QA.
  - Handled 3 release cycles.

### **Specific Responsibilities of Importance:**

#### **Incremental Builds in `Stargate`:**

The `Stargate` build and release system is leverages Gentoo Linux prefixed portage meta-package manager. It utilizes Portage's features like dependency generation, SpikeSource developed RPM generation hook to build stacks. The, then sophisticated build system lacked a simple ability to do incremental builds, the build system was re-factored for doing incremental builds.

**Environment:** SLES/RHEL/Server 2003, Portage, Bash Scripts, GNU Toolchain and MS VC++ Toolchain

**`Redbrick' Build System:**

The `Redbrick' build system was conceived to accommodate SpikeSource's vision of implementing a software factory. This build system leverages all the features of Gentoo Linux prefixed portage meta-package manager like dependency generation, component integration using portage's concept of USE-FLAGS, component distribution using portage native tbz2., The build system features:

- Full / Incremental Builds
- Out of the box integration with components. ( eg: apache and php )
- Option to build / reuse already built artifacts
- Addon to build Archive based installers. ( eg: ZIP )

Additional responsibilities include maintenance of Build System's helpers like source repository, binary host and component catalog DB.

**Environment:** SLES/RHEL/Ubuntu/Server 2003/Server 2008, Portage, Python, GNU Toolchain and MS VC++ Toolchain.

**SCM Mirror:**

SpikeSource uses Subversion as its SCM. The primary SCM is at Redwood City, USA. The read-only mirrors are in India solely used for local builds. A cronjob is setup for sync to happen hourly. Actions are logged and mailed in case of any incident.

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Previously employed in "Fourteen – Strategic Brand Consulting" as "Technical Architect" from June 2006 to July 2007.

**Project: Basecamp API – Time Sheet Tracker Application**

**Client: Fourteen**

*May 2007*

**Phase: Analysis, Coding, Testing and Deployment.**

The project's purpose is to make use of the Time Tracking capabilities for a particular project's milestone or task of Basecamp: a premiere project management & collaboration tool from 37 Signals. The web application makes use of Basecamp's Webservice extensions.

**Environment:** VB.NET, .NET API's, Basecamp XML API.

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**Project: Content Management System & Shopping Cart**

**Client: Opulence Catering & Event Management, Canada**

*January 2007 – March 2007*

**Phase: Analysis, Coding, Testing and Deployment.**

This web application has a full fledged Content Management System for its static pages and features a Service Order system that allows people to order items for a certain event and pay using the Paypal Payment Gateway. The service order system has a management interface for managing food items.

**Environment:** Plain JSP, Hosted Tomcat and MySQL.

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**Project: Basecamp API – Ticketing System**

**Client: Fourteen**

*March 2007 – May 2007*

**Phase: Analysis, Coding, Testing and Deployment.**

The project's purpose is to integrate a support ticket system to Basecamp: a premiere project management & collaboration tool from 37 Signals. The web application makes use of Basecamp's Webservice extensions.

**Environment:** LAMP, Basecamp XML API

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**Project: Internals**

**Client: Fourteen**

*July 2006 – December 2007*

**Phase: Analysis, Coding, Testing and Deployment.**

The Web application caters the need for Workflow system of Creative Production House. It includes Business Development, Project Management and Financials Management. This is designed specific for the environment of creative production house. The Business Development features a Lead tracking system, Appointment tracker, To-Do list, Proposal management and 1 Click Proposal to Project Conversion. The Project management features splitting the work using the standard workflow methods and it has inbuilt process tracker which has its own web service extension. The Financials has its own budgeting system and is linked to the project proposal system.

**Site coordinator and Architect (Team Size: 5)**

- Used Code Igniter MVC framework for PHP.
- Used excel compatible Grid Controls for excel like operations in Financials Module

**Environment:** Code Igniter MVC Framework and LAMP

**WORK EXPERIENCE - FREELANCING**

**Project: BEACON – Ad Campaign Management System for Cabs**

**Client: Group Companies of Fourteen, Coimbatore, Tamil Nadu, India.**

*Jan 2006 – May 2006*

**Phase: Analysis, Coding, Testing and Deployment.**

This Software is a 2 Tier application which has an intuitive interface to manage Cabs, Cab Owners and AD Campaigns associated with Cabs. It provided intuitive allotment logic of AD Campaigns to Cabs and custom HTML based reporting engine. The application was programmed to connect to both local and remote databases for maximum data availability.

**Site coordinator and Developer (Team Size: 2)**

- Developed business layer components using VB6.
- Used Native MySQL ODBC Driver to retrieve data from the middle tier, format data and store it in the Database and ADO to gain highest performance in querying Database
- Developed customized reporting components.

**Environment:** Visual Basic 6, ADO, MySQL, Windows.

**Project: Message Count Retrievers**

**Client:** [Witchestower.com](http://Witchestower.com), Rotterdam, Yorkshire, UK.

March 2005

**Phase:** Analysis, Coding, Testing and Deployment.

This mini Project retrieves the count of "private messages" for a user without involving an overhead of connecting directly to a remote MySQL Db server. It uses a broker PHP script which performs the task and parses data out to an XML to be processed.

**Environment:** Visual Basic 6, Windows Sockets and HTTP 1.0, MSXML, PHP and LAMP

**WORK EXPERIENCE – OPEN SOURCE****Project: The Unicode Captcha Project**

**License:** MIT

**URL:** <http://code.google.com/p/tamil-captcha>

August 2007

A CAPTCHA (an acronym for "completely automated public Turing test to tell computers and humans apart", trademarked by Carnegie Mellon University) is a type of challenge-response test used in computing to determine whether or not the user is human. This Unicode Captcha project makes use of Unicode characters to generate Unicode captchas and offers a finer grain of security.

**Role: Developer**

- More secure than traditional Captcha's as the the captcha breaking app. should know the language.

**Environment:** PHP, GD & Unicode Tamil Fonts in LAMP

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**Project: Stream Engine**

**License:** Creative Commons Attribution License 2.5.

**URL:** <http://csshyamsundar.wordpress.com/code>

July 2006

This application was developed as a proof-of-concept for saving Internet radio streams on-the-fly to disk irrespective of file format (like: MP3, AAC+, WMA and OGG).

**Role: Developer**

- Utilized BASS, a DirectX compatible Sound System for interaction with Windows Sound System and ShoutCAST compatible streaming Servers.

**Environment:** Visual Basic 6, The BASS Sound System and ShoutCAST/ICECast Audio Streaming System.

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**Project: The ASP Captcha Project**

**License:** GPL

**URL:** <http://asp-captcha.sourceforge.net>

May 2005 – June 2005

A CAPTCHA (an acronym for "completely automated public Turing test to tell computers and humans apart", trademarked by Carnegie Mellon University) is a type of challenge-response test used in computing to determine whether or not the user is human. This Project was implemented in ASP scripting language and was the first of its kind in its language.

**Role: Developer**

- Utilized GD Library's capabilities as an Image generator and Optimized an Open COM wrapper for GD Library

**Environment:** Classic ASP, Visual Basic/COM, GD and IIS in Windows Server

**EDUCATION**

July 2002 – May 2006 **Bachelor of Engineering – Computer Science & Engineering** – VLB Janakiammal College of Engg. & Technology - Anna University.

**SEMINARS & WORKSHOPS ATTENDED**

- **RFID Expo 2007**, Bangalore.
- A Seminar on "**Mobile Computing**" by **Jamshed Wadia, Intel corporation.**
- A one day workshop on "**Unit Testing Concepts & Automation in Software Development**" by **Apical Solutions.**

**MISC. INFO.**

- **Current Location** – India
- **Contact Number** – Mobile - +91-97877-74926, VoIP - +1-425-998-1134
- **UK Work permit** – Sponsorship required.
- **Relocation Time required** – 1 month