Sreejith K Development Engineer

Age: 25 years old Email: sreejithemk@gmail.com Tel: (+91) 9940382162

Formation

20042008 B-Tech in Computer Science & Engineering from Jyothi Engineering College, Univer-

sity of Calicut, Kerala.

2002-2004 Higher Secondary Education in Computer Science from KPMHSS, Poothotta, Kerala.

Technical Skills

Specialities Design and development of highly scalable, available and fault-tolerant services, Big

Data, NoSQL Databases, Virtualization, Infrastructure as a Service, Platform as a

Service, Userspace Filesystems, Debian and RPM package management.

Operating Systems GNU/Linux, Mac OSX, Microsoft Windows.

Languages Python, Objective C, C, Erlang.

Databases MySQL, SQLite, Hypertable, MongoDB, Riak, Redis, Cassandra.

Tools Apache Hadoop, Memcached, RabbitMQ, HAProxy, Nginx.

Cloud Platforms Google App Engine, Amazon EC2, Amazon S3.

Recent Interests NoSQL Databases, Cocoa framework for Mac OSX & iOS, Distributed and Parallel

Programming with Erlang, Amazon Dynamo Architecture.

Professional Experience

Since Feb 2012 Tech Lead at K7 Computing Private Limited, Chennai.

Feb 2009 - Feb 2012 Development Engineer at K7 Computing Private Limited, Chennai.

Projects

Cyclozzo,

Platform as a Service

Cyclozzo is a meta cloud platform designed to support the latest PaaS APIs with minimal effort. Cyclozzo currently implements two of the most popular PaaS APIs: Google App Engine Python and Google App Engine Java. Cyclozzo continuously monitors application requests and makes sure that user applications are responsive at all times, while utilizing optimal server resources. When load goes up, Cyclozzo increases the number of application instances and also decreases them when requests come down. Cyclozzo does auto scale-out and scale-in while taking in to account the application's budget/plan.

EggPlug,

NAS and Cloud Storage

EggPlug (www.eggplug.com) is a physical device which lets you access your digital media across the Internet. Contents across various other Physical plugs and desktop installations are kept in sync. User selected files/folders are backed incrementally onto Amazon S3. Devices are authenticated using OAuth protocol. One could simply consider this product as a NAS and Dropbox solutions combined.

FluidVM,

Hypervisor Manager

FluidVM is a virtualization platform. FluidVM provides a unified interface to manage all opensource hypervisors. A pure python implementation for which we developed our own development framework and billing solution. It comes integrated with third party billing solutions like WHMCS as well. All basic functionalities like backup, templatization, migration, SAN and local storage management work seamlessly across all hypervisors. FluidVM provides fine grained user control and allows various levels of user configurations at runtime. FluidVM has an optional VLAN and bonding functionality along with Basic Firewall and traffic controlling.

SampleShare, FUSE Filesystem A FUSE (Filesystem in USErspace) filesystem written in Python that creates filesystems on the fly by querying an MSSQL server. This filesystem can be shared across Windows networks though Samba. This was designed to make it easier for a Virus Researcher to access his samples without having to search though the entire filesystem.

Medusa, FUSE Filesystem Medusa is a distributed filesystem written in Python that supports file versioning and filesystem snapshots. It is possible to configure preferred file block sizes and replication factor.

Personal Projects

Cyclozzo OSE Opensource Edition of the Cyclozzo Platform as a Service.

Voldemort Voldemort is a blog-aware static site generator using Jinja2 and Markdown templates.

Inspired by Jekyll static site generator written in Ruby.

Digital Circuit Simulator A GUI based Digital Circuit simulation software using Python and Tkinter. Supports

all basic Logic Gates and circuit elements such as Adders, Counters, Flip-Flops and

Clock Generators.

HadoopFS A libary that provides Python file like interface to Hadoop Distributed Filesystem.

TuxPaint Magic Tool A Magic Tool for Tux Paint which makes a scratched effect on the canvas. Written

in C.

Appy A simple Application Framework for Python which simplifies the handling of com-

mandline options, threading, multiprocessing and logging in Python.

HyperGAE A project that helps Google App Engine SDK (Python) to run on top of Hypertable.

GitFS A FUSE filesystem written in Python that stores data on Git(Hub).

PlayAsia API The Play-Asia.com API is a set of functions that allow you to retrieve data progra-

matically using Python.

Riak Python Client Various fixes and feature additions to the Riak Python Client.

Riak Multi Index Multiple secondary index query support for Riak using Python.

Various fixes and feature additions to the Hypertable Python Client using Boost Hypertable Python Client

Library.

Hypertable Deployment

Script Pytt

Automated deployment of Hypertable using Fabric.

Pytt is a BitTorrent Tracker written in Python using Tornado.

Publications

The New Scheduler on the Block, Dedicated to Desktops: An article about Linux For You,

Brain Fuck Scheduler (BFS) for Linux written by famous Linux Kernel hacker Con October 2009

Kolivas.

ILUG-Cochin, Custom Kernel Compilation - Ubuntu way: A HOWTO on compiling custom

August 2008 kernel sources on Ubuntu published on ILUG-Cochin website.

Remastering Ubuntu: A HOWTO on building custom Ubuntu distributions using ILUG-Cochin,

Reconstructor. August 2008

Awards & Honours

2011 Excellence in Software Development, K7 Computing Private Limited.

Best Project, Jyothi Engineering College. 2008

Best Student Award, Edakkattuvayal Grama Panchayat, Kerala. 2002

Online Profiles

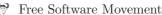
Blog http://foobarnbaz.com https://github.com/semk GitHub

LinkedIn http://in.linkedin.com/pub/sreejith-k/15/50b/69

Interests & Activities



Learning new technologies





Solving problems

