

Sreejith K

Development Engineer

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Formation

2004-2008	B-Tech in Computer Science & Engineering from Jyothi Engineering College, University 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.
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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, templization, 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 through 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 library 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 commandline 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 programmatically 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.

Hypertable Python Client	Various fixes and feature additions to the Hypertable Python Client using Boost Library.
Hypertable Deployment Script	Automated deployment of Hypertable using Fabric.
Pytt	Pytt is a BitTorrent Tracker written in Python using Tornado.

Publications

Linux For You, October 2009	<i>The New Scheduler on the Block, Dedicated to Desktops</i> : An article about Brain Fuck Scheduler (BFS) for Linux written by famous Linux Kernel hacker Con Kolivas.
ILUG-Cochin, August 2008	<i>Custom Kernel Compilation - Ubuntu way</i> : A HOWTO on compiling custom kernel sources on Ubuntu published on ILUG-Cochin website.
ILUG-Cochin, August 2008	<i>Remastering Ubuntu</i> : A HOWTO on building custom Ubuntu distributions using Reconstructor.

Awards & Honours

2011	Excellence in Software Development, K7 Computing Private Limited.
2008	Best Project, Jyothi Engineering College.
2002	Best Student Award, Edakkattuvayal Grama Panchayat, Kerala.

Online Profiles

Blog	http://foobarnbaz.com
GitHub	https://github.com/semk
LinkedIn	http://in.linkedin.com/pub/sreejith-k/15/50b/69

Interests & Activities



Learning new technologies



Free Software Movement



Solving problems



Gaming