

# Ronak Kogta

## Interests

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Distributed Systems, Cloud, Containers

## Work Experience

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Principal Engineer, **Clouber** [June 2015-Present]

I worked on porting many public cloud platforms to Clouber platform, and developed a tool for virtual instance migration to avoid cloud lock-in problem

**Language:** golang, bash

**Infrastructure:** GCE, AWS, Rackspace, Azure

Build Engineer, **RENIAC Inc.** [2013-2015]

Here I build the data pipeline between fpga and linux host, in order to facilitate data from rBG programmed network stack, and released packages for various distributions.

Research Assistant at **CVEST Lab** [2011-2013]

Contributor at **Openwall Summer of Security** [Summer 2013]

Here, I worked on improving John the ripper support for AES encryption on OpenCL platform. Before that I worked on low level description of opencl code, and ways to tweak with it

Head Teaching Assistant, *Operating Systems, Computer Networks*

## Projects

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**A Few good sequences for HLS compilers** [Jan-May 2013]

We present a practical approach to find good optimization sequences for hls generated hardware on per-program basis.

Language: c,python

**Docklock** [June 2014]

Zero-knowledge Docker Containers to provide one extra layer of security in cloud based hosting.

**RAMFs: A simple volatile filesystem**

In this project, we used FUSE to implement a filesystem in user-space, which was designed to use virtual memory space for all operations

## Talks

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I have been actively involved in docker community in Hyderabad and presented several talks at meetups and Google Hyderabad.

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## Education

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2011 – 2013 **Master of Science**  
Parallel Algorithms, Computer Arch.  
*CVEST, IIT Hyderabad*

2007 – 2011 **Bachelor of Technology**  
Computer Science  
*IIT, Hyderabad*

## Achievements

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2014,2015 *Winner of Local session of Docker Global Hackathon II & III*  
2010 *Got an Scholarship for International Congress of Mathematicians*

## Skill Set

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Operating System *GNU/Linux*  
Containers *LXD,Docker*  
Languages *C,C++,Python,bash,golang*  
Libraries *CUDA, OpenCL, OpenMP*

## Research

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Papers *Retargeting Optimization Sequences from Scalar Processors to FPGAs in HLS compilers [FPGA 2015]*  
Posters *Workshop in Hybrid Algorithms HiPC 2011, On Eigen Value computation using MPI for GPU and CPU*

## Hobbies

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Clubs *I have ran GPUclub in past, and currently read in a bitcoin protocol reading group.*  
Books *I read about economics and entrepreneurship. HBR, Economist and Communications are my favorite magazines.*  
Others *I like to play hockey and listen to instrumentals*