

# GNANESH R

@ gnaneshkunal@outlook.com    28-1382/1, New Balaji Colony, Chittoor  
gnanesh.me/    @gnaneshkunal    linkedin.com/in/gnanesh-kunal

Andhra Pradesh, IN    +91-9502-477942  
github.com/gnaneshkunal

## PROFESSIONAL SUMMARY

Language agnostic engineer skilled at software development with experience of understanding the requirements and tackling ownership of designing, building and maintaining the solutions. **Interested in distributed systems and databases.**

In my free time, I contribute to OSS, grok programming languages (and its internals), trace distributed systems and live in multiple operating systems and work as a saint in the church of Emacs.

## WORK EXPERIENCE

### Senior Software Developer - 1 at HashedIn Technologies

**Python, TypeScript, Redis**

Intern (Feb 2019 - May 2019) SDE (June 2019 - May 2020), Senior (June 2020 -)

**Product:** Redisinsight

**Role:** Developer

**Description:**

Redisinsight is a cross platform GUI for redis. Redisinsight also supports modules. Currently the only GUI for redis that can visualize, debug and build an application with the data.

**Contribution:**

- Wore various hats in the complete lifecycle of the product. From technical to managerial. From development to testing to maintaining to supporting.
- Took complete responsibility to add **RedisGraph**, **RedisJSON** and **RedisGears** modules to the product.
- Wrote highly flexible code and provided backward compatibility even for officially unsupported versions of the modules.
- Followed a proper and clean architecture design pattern while writing reusable components and migrated most of the existing components to use the new component.
- Converted a big cypher query into smaller queries which indeed gets executed lazily and **got down the memory usage by 95%**.
- **Implemented auto discovery of Redis servers when the application is deployed in a kubernetes environment.**
- Regularly contributed to Redis and its clients on github.
- Took the task to **optimize CI resources and reduced the cost by 50%**.
- Added **TLS support** for the product.
- **Rewrote the windows installer using WiX toolset** handling proper version upgrades.
- **Fixed virus fix issue in the product by building a custom bootloader.**
- **Integrated ACL** in the product thus enabling the organization owner to control which collaborator can access what resources and do what actions in the product.
- Implemented many GUI features of RedisGraph and **gave a competition to Neo4J browser which is a competitive product of Neo4J database.**
- Worked on implementing the next version of *Browser component* in the product which is similar in functionality to Airtables.
- Built a recursive UI component that handles the recursive nature of RedisJSON.

## STRENGTHS

- Proficient

Python Rust Javascript C  
Emacs React Web Development  
Distributed Systems  
Database management systems Linux  
Docker Redis Git  
Cypher Query Language ZeroMQ

- Comfortable

Golang PostgreSQL Kubernetes  
System programming AWS  
OpenBSD/FreeBSD Latex  
Programming languages and Toolchains

## ACHIEVEMENTS

- One of the winner in FOSS 2020 hackathon  
We have made a Terminal User interface for kubernetes using golang.
- One of the top 3 debutants of the company in the year 2019.
- Developer of month (June 2019).

## EDUCATION

B.Tech. in Computer Science

**VIT University**

2015 - 2019    CGPA: 8.18

H.SC. in Mathematics

**Narayana Junior College**

2013 - 2015    CGPA: 9.02

SSC

**Camford English High School**

2001 - 2013    CGPA: 9.50

## LANGUAGES

English Tamil Telugu Hindi

# PROJECTS

## Dogs vs. Cats classifier

Classifier that is able to distinguish dogs from cats.

## YOLO based Image Retrieval

Image Retrieval system based on YOLO algorithm.

## Twitter Riots

Predict riots on Twitter using HashTags.

## Book Miner & Analyze

Web crawler for book domain and Analysis of those books using Apache Spark.

## Library Book Locator with book misplacement Detector

Book detection using RFIDs.

## Socket Chat and Game Server

Chat and play games using sockets (Includes Elgamal Encryption)

## Checkout Logger

Saving your bills online and automatically indexing it using Vision API.

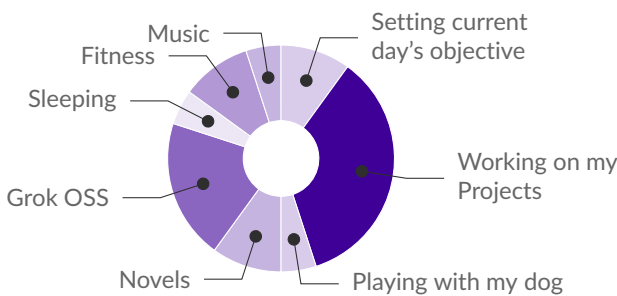
## Piggy Bank

CRUD App for Bank Management Systems using PHP and MYSQL.

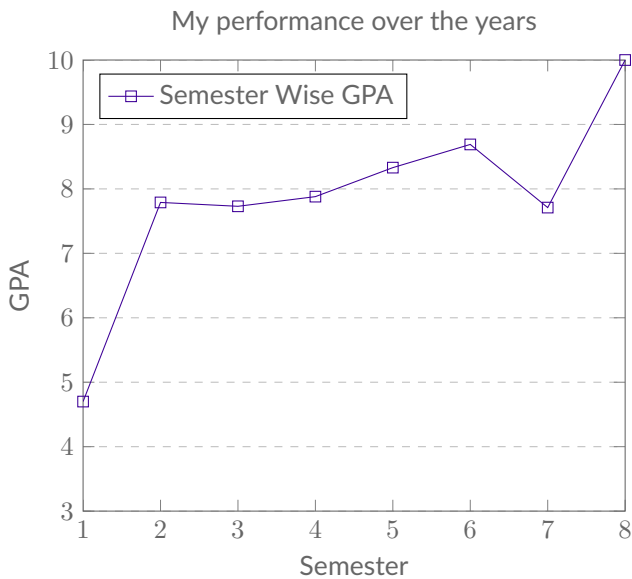
## Dict

A command line dictionary with a GraphQL backend.

# A DAY OF MY LIFE



# PERFORMANCE







# CERTIFICATIONS

- Big Data Specialization
- Machine Learning
- Deep Learning Specialization
- Mathematics for Machine Learning
- Functional Programming using Scala
- Cryptography

# LIFE PHILOSOPHY

*"The lower you fall, the higher you'll fly."*

# MOST PROUD OF

-  **Reading Books**  
I consider books as a Basic Human need.
-  **Programmer**  
My love for Computer Science and Mathematics are concrete.
-  **Colemak**  
I am a COLEMAK user
-  **Atheist**  
'Nuff Said!

# WHAT AM I?

-  **Supporter of Free Software**  
"Free" as in "Free speech," not as in "Free beer".
-  **Saint**  
I am a saint in the church of Emacs.
-  **Cuber**  
I have a record of solving the Rubik's cube under 20 sec.
-  **Batman Fan**  
I am a fan of The Caped Crusader.