GNANESH R

@ gnaneshkunal@outlook.com   ☎ +91-9502-477942   🔗 gnanesh.me/   ⌨ github.com/gnaneshkunal

in linkedin.com/in/gnanesh-kunal   📍 Andhra Pradesh, IN

PROFESSIONAL SUMMARY

Language agnostic engineer skilled at software development with experience of understanding the requirements and taking ownership of designing, building and maintaining the solutions.

In my free time, I read novels and contribute to OSS.

WORK EXPERIENCE

Senior Software Engineer - 1 at HashedIn Technologies

Python, TypeScript, Redis

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

<u>**Product**</u>: Redisinsight 📦

<u>**Role**</u>: Senior Engineer

<u>**Description**</u>:

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

<u>**Contribution**</u>:

- 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.
- Reduced a big cypher query memory usage by 85% by converting it to equivalent scalable smaller queries.
- Implemented auto discovery of Redis servers when the application is deployed in a kubernetes environment.
- Regularly contributed to Redis and its clients on github.
- Optimized CI resources and reduced the cost by 50%.
- Added TLS support to the product.
- Rewrote the windows installer of the product and handled proper version upgrades.
- Fixed virus issue in the product by building a custom bootloader for the core python runtime.
- Worked on implementing the next version of *Redis key explorer* in the product which is similar in functionality to Airtables.

- -

<u>**Product**</u>:Predicto
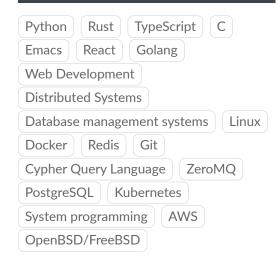
<u>**Role**</u>: Team Lead

<u>**Description**</u>:

Predicto is a data streamer and platform that performs predictive analysis.

<u>**Contribution**</u>:

- Followed a test-driven approach while building the product.
- Implemented various connectors ranging from high level Kafka PUB/SUB to raw TCP socket streams.
- Implemented various distributions like binomial, gaussian, poisson etc.,
- Wrote configuration validator that is configuration format agnostic.
- Took the client calls and quickly delivered Amazon Kinesis connector requirement.

SKILLS

Python   Rust   TypeScript   C

Emacs   React   Golang

Web Development

Distributed Systems

Database management systems   Linux

Docker   Redis   Git

Cypher Query Language   ZeroMQ

PostgreSQL   Kubernetes

System programming   AWS

OpenBSD/FreeBSD

EDUCATION

B.Tech. in Computer Science

VIT University

📅 2015 – 2019   📍 CGPA: 8.18

CERTIFICATIONS

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

PROJECTS

LazyKubernetes

A TUI for kubernetes. It was one of the winning project in FOSS 2020 hackathon.

Dict

A command line dictionary with a GraphQL backend.

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.