

GNANESH R

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PROFESSIONAL SUMMARY

As a language-agnostic engineer, I excel in software development and have a proven track record of understanding requirements, taking ownership of design, building, and maintaining solutions.

In my free time, I enjoy reading novels and contributing to open-source software.

WORK EXPERIENCE

Software Engineer III

Golang, Postgres, RabbitMQ, Fintech, BBPS, Terraform

📅 Sept 2021 - Present
🔧 Full-time

🏢 SETU
📍 Bangalore

- Demonstrated excellent understanding of the BBPS ecosystem through ownership of the BBPS customer operating unit product and serving as the point of contact for NPCI/Bank regulations.
- Have a deep understanding of E2E payment systems and all the stakeholders, and regulations involved.
- Expertise in writing fault-tolerant systems and possess strong technical skills, including experience with RPCs, message queues, metrics/analytics tools, and multithreaded software development.
- Enhanced system performance by integrating K8s cluster, supporting metrics, and incorporating Elasticsearch and Kibana.
- Experience writing compliant cryptographic software using industry standard algorithms.
- Improved system efficiency by integrating OpenTelemetry, enabling the detection of unnecessary/slow calls.

Software Engineer

Typescript, Python, Redis, D3, Plotly

📅 Oct 2021 - Present
🔧 Contract

🏢 Redis
📍 Remote/Open Source

- Maintained and supported **Redisinsight V1**, providing technical expertise for the development of **Redisinsight V2**.
- Implemented Visualiser for RedisGraph, RedisTimeseries and module query explainer in RedisInsight V2.
- Rich experience in working in D3, Plotly, Elastic UI and other visualization libraries.
- Writing blogs, setting up complex enterprise reverse proxy setups, and building infrastructure automation using Terraform.
- Fixing bugs in Redis, experimenting with POCs which included a thin RDB file parser in rust.

Fullstack Engineer - 2

Python, Google Cloud, Reverse Engineering

📅 Aug 2021 - Sep 2021
🔧 Contract

🏢 Vital
📍 Remote

- Reversed engineered 8sleep and provided APIs and integration for the same.
- Implemented provider agnostic dashboard APIs that just works with any provider.

SKILLS

Golang Python Rust TypeScript
C React Emacs Docker Redis
Git PostgreSQL RabbitMQ AWS
Kubernetes Terraform
Distributed Systems
Reverse Engineering
System programming

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 projects in FOSS 2020 hackathon.

RDBParser

Parser of RDB file written in rust

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.

Raft rs

Raft implemented in rust.

Swim rs

Gossip based on SWIM protocol implemented in rust.

Senior Software Engineer - 1

Python, TypeScript, Redis

📅 Feb 2019 - Aug 2021

🏢 HashedIn Technologies

🔧 Fulltime

📍 Bangalore

- 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.
- Optimized CI resources and reduced the cost by 50%.
- Fixed virus issue in the product by building a custom bootloader for the core python runtime.