

# Prem Kumar G

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## SUMMARY

Software Engineer with 2.9 years of experience, specialising in Back-end development, DevOps, and AI. Proficient in utilising Docker for efficient deployments, implementing robust back-end systems. Recognised for my ability to independently manage projects and driving innovation.

## SKILLS

**Back End:** Python, FastAPI, Flask, Go (Novice), RDBMS, NoSQL, Redis, RabbitMQ

**DevOps:** Azure, Docker, Kubernetes, Linux, Bash, CI/CD, Ansible, Nginx, Prometheus

**Others :** Machine Learning, GenAI, RAG, DNS, TCP/IP, SSL, OSI Model

**Front End:** HTML, CSS, JS, Vue.js

## EXPERIENCE

### Backend Developer | Edgebricks | Bengaluru, KA | September 2024 - Present

- Contributed to transitioning a self-hosted **chatbot** solution to a **SaaS**-ready architecture, enabling scalability and multi-tenancy for cloud deployment.
- Assisted in **backend** optimizations and refactoring efforts to ensure seamless integration of the chatbot solution with SaaS infrastructure.
- Gained exposure to developing chatbot solutions using various large language models (**LLMs**), enhancing conversational capabilities.
- Collaborated with the DevOps team, utilizing **Docker**, **Linux**, and **Ansible** to gain hands-on experience in deployment automation.

### Python Developer | Insight Consultants | Bengaluru, KA | October 2022 - September 2024

- Spearheaded the development of a comprehensive **ID verification product**, integrating document verification, facial recognition, and bank statement analysis, resulting in a **60%** reduction in manual processing time and enhanced fraud detection.
- Implemented the core backend using Python **FastAPI**, designing robust **RESTful** APIs to ensure high performance and scalability.
- Orchestrated the **DevOps** strategy, implementing a robust CI/CD pipeline using **Docker**, **Nginx**, **Linux**, and **Azure DevOps**.
- Built a **RAG** (Retrieval-Augmented Generation) based LLM Chatbot using **Langchain** and **LlamaIndex**, enabling team to extract actionable.

### Finance Engineer | Insight Consultants | Benagaluru, KA | March 2022 - September 2022

- Developed an automated **underwriting** tool that reduced loan verification time by 90% and decreased FPD rates from 25% to 16%. Engineered a data pipeline integrating web scraping, and **OCR** to streamline document processing.
- Created a Machine Learning model with 85% accuracy to auto-segregate bank documents, improving process efficiency. Led the design of Power BI dashboards and spearheaded automated reconciliation projects using Python and UiPath.

## PROJECTS

### Build Your Own Redis (BYOR) | November 24 | [github.com/premgowda98/byor](https://github.com/premgowda98/byor)

- Built a custom **Redis** implementation supporting basic commands (PING, ECHO, SET, GET) and master-slave replication.
- This Redis solution can be interacted with **redis-cli**

### Multi-purpose Home Server: From Ad Blocking to Kubernetes Cluster | March 24

- Implemented a home network infrastructure utilizing **Raspberry Pi**, showcasing proficiency in **network design**, Linux.
- Created a personal Kubernetes cluster for application deployment, leveraging **Cloudflare tunnels** for secure remote access.

### Streak Stalker Bot | October 23 | [github.com/onyx185/streak-stalker-bot](https://github.com/onyx185/streak-stalker-bot)

- Created a Python-based Discord bot for a coding challenge management system, securing 3rd place in a competition.
- Integrated daily notifications and scheduled input collection, enhancing user engagement and overall project functionality.

## EDUCATION

Bachelor of Mechanical Engineering | Global Academy of Technology | Bengaluru, KA | 2019 | 8.3

## CERTIFICATIONS

- RabbitMQ Essentials Certification by CloudAMQP:** Gained comprehensive knowledge of message **queuing** systems.
- Redis | RU101: Introduction to Redis Data Structures:** Mastered **Redis** data structures and modeling techniques
- Neo4j Graph Fundamentals Certification:** Acquired expertise in graph database concepts, **Cypher** query language, and data modeling.