

# Prem Kumar G

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## SUMMARY

Software Engineer with 2.6 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, Django, 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, Vue.js, Nuxt.js

## EXPERIENCE

### Python Developer | Insight Consultants | Bengaluru, KA | January 2023 - Present

- 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.
- Architected and implemented the core backend using Python **FastAPI**, designed the database architecture with **MS SQL** and **MongoDB**, and led frontend development with **Vue.js** and **Nuxt.js**, showcasing full-stack expertise.
- Orchestrated the **DevOps** strategy, implementing a robust CI/CD pipeline using **Docker**, **Nginx**, **Linux**, **Ansible**, and **Azure DevOps**, while architecting and deploying resources on **Azure Cloud** platform for optimal scalability and security.
- Engineered an innovative **RAG** (Retrieval-Augmented Generation) model using **Langchain** and **LlamaIndex**, enabling leadership to extract actionable insights from employee surveys via **LLM-powered** chat.

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

- Developed and implemented an **automated underwriting tool**, reducing loan verification time by **90%** and decreasing **First Payment Default (FPD)** rates from **25%** to **16%**, significantly improving efficiency and risk management.
- Engineered a comprehensive **data pipeline** integrating web scraping, database connectivity, and PDF processing with **OCR** technology to analyze bank statement transactions, streamlining the underwriting process and enhancing automated document processing.
- Created a **Machine Learning classification** model achieving **85%** accuracy for auto-segregating bank documents from other user-provided materials, substantially reducing manual verification time and improving overall process efficiency.
- Designed and developed **Power BI** dashboards and spearheaded automated reconciliation projects using **Python** and **UiPath**.

## PROJECTS

### 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.

### Personal Finance and Tech Blogs Aggregator | December 23 | [premgowda.azurewebsites.net/](https://premgowda.azurewebsites.net/)

- Built a custom personal finance tracking and analysis website, and a tech blog aggregator with API integration skills.
- Integrated Gemini LLM for blog summarization in order to enhance content consumption efficiency.

### 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.

## CERTIFICATIONS

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

## EDUCATION

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