

GOKUL RAAM

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PROFESSIONAL SUMMARY

Backend engineer specialised in writing RESTful APIs that are really fast and easy to maintain. Experienced in crafting reusable modules, optimising queries, finding and fixing security hotspots in the application. Have worked with technologies like Python, Redis, PostgreSQL, Celery

WORK EXPERIENCE

Saama Technologies, Coimbatore

Software Engineer

December 2023 - Present

- Owned the **end-to-end design and development** of numerous core modules, maintaining 99.9% uptime and **stability** for hundreds of users.
- Engineered a global **Redis caching utility** for high-frequency app configurations, increasing server operation speed by **6x** & reducing DB load.
- Optimized complex SQL queries**, achieving a **60x reduction** in **execution latency** for frequently accessed APIs, improving user experience.
- Architected **normalized PostgreSQL databases** used by multiple services, **eliminating data redundancy** and ensuring 100% **consistency**.
- Refactored** legacy components using **SOLID principles**, enabling **code reliability** and new **feature extension** with **zero regression** issues.
- Identified and remediated **critical security vulnerabilities**, like **SQL Injection**, IDOR, weak cryptography, ensuring a **secure production env**.
- Actively working in an **Agile environment** and **collaborating with the team**, consistently delivering complex tasks on schedule.
- Lead peer **code reviews and PR evaluations** to enforce code quality and standards.

Software Engineering Intern

April 2022 - December 2023

- Designed and developed flexible **RESTful APIs with Flask** used by different client applications, ensuring **modularity & ease of integration**.
- Used **Pydantic** to define and **validate JSONs** and used it to import proper data into **PostgreSQL** from the unstructured CSV files.
- Boosted data pre-processing and **validation performance** by 12x using threading and **lru_cache** for optimized validations.
- Regularly writing **unit tests & integrations tests** for the APIs using **Pytest**.
- Developing **global utilities, reducing redundant code**, bugs, improving **development efficiency** for the **entire engineering team**.

FREELANCE EXPERIENCE

Job Portal

Project Coordinator, Backend Developer

2021 - 2022

- Worked with a **team of 7** in developing a job portal application
- Designed the **database normalized to 3NF**, to store data with consistency and without duplication.
- Planned and developed **REST APIs** using **Django** and integrated with frontend (HTML, CSS, JS)

Website for Clayton Chettinad Restaurant

2021 - 2022

Frontend Developer

- Developed a **React** web application for an Australian restaurant named Clayton Chettinad
- Made it a **PWA** to make it installable and **offline access**.
- Developed **reusable components** and made the code base easily extendable.
- <https://clayton-chettinad.netlify.app/>

AWARDS & ACHIEVEMENTS

- Won the **Best Technical Implementation & Execution award** at **Saama Hackathon 2025** for developing an AI driven **Protocol Document standardizer**. Implemented a **robust background job pipeline** using **FastAPI** to digitize PDFs to **interpretable JSONs**.
- Special recognition award during **Saama Hackathon 2024** for developing an interactive web debugger for SDQ product.
- MG Scholarship for outstanding academic performance during college.

PROJECTS

2022 - 2023

Activities recommendation system for college

- Developed a highly scalable activity **recommendation system** for the college campus using **PySpark, Kafka, Flask**.
- New users to the college campus receive activity recommendation based on chats of previous users. User activities are streamed to Kafka, which is consumed and used for generating real time recommendations using PySpark on distributed nodes, making it extremely fast.
- GitHub Link:** <https://github.com/Sanjay8322/NaviGuide>

SKILLS & CERTIFICATIONS

Languages: Python, Java, Javascript, C

CS Fundamentals: OOPs, DBMS, Data Structure & Algorithms

Certification: Hackerrank Certifications on [Python](#), [REST APIs](#), [SQL](#), [Java](#), [Javascript](#)

EDUCATION

Kumaraguru College of Technology

2019 - 2023

Bachelor of Engineering, Computer Science & Engineering

Related Coursework: DBMS, Data Structure & Algorithms, OOPS, Software Development Lifecycle, Python

GPA: 9.3/10