

BISWAJIT KAUSHIK

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Work Experience

Samsung R&D | Software Engineer

Jan' 24 - Present

- Part of the AI Platform team developing **RAG workflows** using **LangChain** and integrating AI solutions on smartphones.
- Previously the part of Samsung Health application team, creating solutions to **digitize the health record** of our users.
- Utilized **AWS Lambda, DynamoDB** and **API Gateway** to develop backend servers for fetching and storage of records.
- Researched and analyzed various **OCR** solutions, **LLM** for retrieval of lab parameters from lab reports including Azure, AWS, ChatGPT and Google Gemini that **reduced cost** by 30%.
- Delivered modern records share and download functionality in the app improving creativity and user experience.
- Deployed cryptography **encryption, decryption service** on **AWS EC2** providing secure transmission of records.

OpenStreetMap | Python Developer (Open-Source)

Jan' 23 - May'23

- Worked on development of a geocoding search engine that serves **30 million queries daily** on a single server. [↗](#)
- Implemented a delete tags **sanitizer** to prevent unwanted tags from entering the database thereby **improving search results** by 10% and enhancing **security**. Ensured integrity by **unit testing** using **Pytest** with **100% testing coverage**. [↗](#)
- **Reduced 20% redundancy** in code by generalizing filter function for multiple use cases. [↗](#)
- Performed **shell scripting for automation** of project description and adaptability. Integrated **CI/CD pipeline test on GitHub actions** workflow reducing manual effort by 10%. [↗](#)
- **Resolved bug** in determining amenity as area **solving 6 current and multiple potential issues** by troubleshooting and observation. Improved code readability by **comprehensive documentation**. [↗](#)

Skills

Programming Languages: Python, Javascript, Typescript, C++, Lua, Java, Kotlin

Framework: Flask, FastAPI, Django, React, node.js, Next.js, Rest API, SQLAlchemy ORM, Tailwind CSS, HTML

Database and Cloud: SQL, PostgreSQL, MongoDB, Redis, AWS (EC2, S3, Lambda, DynamoDB)

Tools: Docker, Kubernetes, Apache Kafka, Linux, Bash, Elasticsearch, Version Control (Git)

Projects

LogFlow Insight : Log Ingestor and Real-Time Query Interface | [Github](#), [Video Demo](#)

- A fullstack **distributed and scalable microservice system** that provides a server for high volume log data ingestion over HTTP and a real-time query interface to search logs based on 7+ filters.
- Utilizes Elasticsearch partitioning and sharding database for storage, retrieval and analysis of log data providing **high resilience and availability**.
- Server built using FastAPI which **handles multiple concurrent requests asynchronously** with high performance. Performed load testing. Published interface website using Flask, JQuery and Bootstrap that handles log streaming.
- Employed **docker to containerize components** that allows quick shipping, deploying and scaling of the remote software reducing deployment effort by 30%.

Youtube Watchman : Youtube Data API-Based Dashboard Web App | [GitHub](#)

- Utilized Youtube Data API and information retrieval technologies to efficiently detect video uploads on channels, trigger events and improve productivity and management.
- Integrated SMTP protocol **email and automatic comment functionality** using a multithreading model.
- Employed **Flask to develop backend REST APIs**, used **PostgreSQL** as database and login functionality using **Google OAuth 2.0 and server-side sessions** with proper system design architecture.
- Implemented **Role-Based Access Control(RBAC)** with OAuth 2.0 authentication logged in and guest user features.

Achievements

- Rated **2194** (Guardian) on LeetCode (**Top 1.1% worldwide**). Solved 700+ problems on multiple platforms. [↗](#)
- Utilized knowledge, active learning, problem solving and optimization to achieve rank **675** in **Google Kickstart Round H**. [↗](#)
- Authored in-depth, comprehensive, high quality and informative articles with teamwork achieving **30000+** impressions. [↗](#)

Education

Indian Institute Of Information Technology Kota

2020 - 2024

Bachelor of Technology(B.Tech) in Computer Science and Engineering (CSE)

CGPA: 8.68

Course: *Data Structures & Algorithms, Object-oriented programming, design patterns, Operating Systems, Computer Network, Databases*