

Dhanashree D

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EDUCATION

PSG Institute of Technology and Applied Research

Bachelor of Engineering (B.E.), Computer Science Engineering CGPA-9.12/10

Coimbatore, India

2020 – 2024

EXPERIENCE

Software Engineer

Fiorano Software Technologies

Jul 2024 – Present

Bangalore, India

- Redesigned the **SBW document-tracking** architecture in a **distributed** environment by offloading database writes from the enterprise server to peer servers, improving system scalability and reducing central-server load by **30%**, utilizing **FioranoMQ**.
- Implemented a **rate-limiting policy** in the API Gateway to control client request throughput.
- Built an optimized **SQL stored procedure** pipeline to aggregate minute-level analytics data into summary tables, cutting **data volume** by about **76%** and enhancing system scalability.
- Contributed to the development of a high-performance **GraphQL server** using Apollo to streamline data aggregation from multiple REST APIs, enhancing response efficiency and reducing frontend complexity.
- Optimized data retrieval in Fiorano SOA by implementing **date-based PostgreSQL table partitioning** for workflow state events, boosting fetch performance by **70%** and resolving latency issues.
- Built a real-time event broadcasting service via **Server-Sent Events (SSE)**, enabling API Management server to push live updates directly to dashboards.
- Boosted analytics performance in the API Management server by about **60%** by identifying and resolving bottlenecks in data retrieval queries in **Oracle DB**.

Software Engineer Intern

Fiorano Software Technologies

Jan 2024 – Jul 2024

Bangalore, India

- Implemented multiple REST API endpoints using Eclipse Jersey (JAX-RS) and contributed to **server-side** enhancements for efficient orchestration and lifecycle management of pre-built **microservices**.
- Developed unit test cases for testing lastest features added to FioranoSOA achieving over **85%** coverage.

Research Intern

Indian Institute of Technology, Guwahati [[Certificate](#)]

Apr 2022 – Aug 2022

Guwahati, India

- Explored routing algorithms in **Networks-on-Chip (NoC)** and gained practical experience working with gem5, a processor simulation framework.
- Proposed and implemented an efficient **anonymous routing algorithm** for on-chip networks, outperforming traditional onion routing. (Tech: **Python, C++, gem5**)

PROJECTS

FlashLearn | Spring Boot, React, PostgreSQL

Oct 2025

- Developed a personalized flashcard learning platform featuring an **adaptive spaced repetition algorithm**, **JWT**-based secure authentication, and **collaborative deck-sharing** among peers. Enhanced user engagement through a clean analytics dashboard, resulting in a **40%** improvement in memory retention for users.

ACHIEVEMENTS

Publication | Python, Flask, Machine Learning

Jun 2024

- Published a research paper on “*Intrusion Detection in SDN using Ensemble Learning Technique*” at **ICSSEECC**, applying machine learning ensemble methods to identify attacks in the network. [[View Paper](#)]

Deep Learning Tutor | Python, Deep Learning

Mar 2023

- Led a Deep Learning workshop at Yuktaha symposium, mentoring **150+** students through hands-on sessions on **RNNs, LSTMs, GRUs, and Transformers**. [[View Report](#)]

TECHNICAL SKILLS

Languages & Frameworks: Java, C++, Python, TypeScript, Javascript, Node.js, Jersey, Spring Boot

Databases: SQL (Oracle, MySQL, PostgreSQL, H2), NoSQL (Cassandra)

Technologies & Tools: RESTful APIs, GraphQL, Ant, Docker, CI/CD tools.