

ABHIROOPA BHAGAVATHI N

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SUMMARY

Java backend developer with hands-on experience building event-driven systems using Spring Boot, RabbitMQ, and Redis, and applied experience integrating LLM APIs into working tools. Currently contributing to a reusable SaaS backend template built for rapid client customization and deployment.

TECHNICAL SKILLS

Languages: Java, Python, C#, JavaScript, HTML/CSS

Backend: Spring Boot, REST APIs, Drools (rules engine)

Messaging & Caching: RabbitMQ, Redis

Databases: PostgreSQL, MySQL

AI / LLM Integration: Groq API, Ollama, LangChain (in progress)

Data Visualization: Power BI

Tools: Git, GitHub, IntelliJ IDEA, VS Code

CS Fundamentals: OOP, DBMS, Computer Networks, Data Structures (Arrays, HashMaps, Linked Lists, Stacks, Queues)

PROJECTS

FinVigil Central — Credit Underwriting & AML Surveillance Backend *(In Progress)*

Java, Spring Boot, Drools, RabbitMQ, Redis, PostgreSQL

- Built an event-driven loan underwriting backend using RabbitMQ to decouple API response time from async credit decisioning
- Designed a Drools rules engine for auditable credit decisions (DTI ratio, credit score, employment checks) with traceable rule triggers
- Implemented Redis sliding-window heuristics to flag AML transaction structuring in real time
- Modeled a PostgreSQL schema for applicants, loans, transactions, and AML alerts with full audit trail support

LogSage AI — Log File Anomaly Explainer

Python, Streamlit, Groq API, Ollama, SQLite, Plotly, ReportLab

- Built an AI-powered log analysis tool that detects anomalies and generates plain-language explanations from uploaded log files
- Integrated LLM-based analysis (Groq API, Ollama) with a rule-based fallback for reliability when AI calls fail
- Built an interactive Streamlit dashboard for log upload, severity tracking, and incident history
- Implemented PDF/CSV export and SQLite storage for maintaining an analysis record

Online Retail Sales Dashboard

Power BI, DAX

- Built a business intelligence dashboard performing data cleaning and DAX-based KPI calculations to surface sales insights

INTERNSHIP EXPERIENCE

Avergon — Backend Developer Intern

Python | Ongoing

- Contributing to a reusable, AI-assisted SaaS backend template engineered for rapid client customization — from requirement intake to configured deployment — as part of an 11-member engineering team
- Implemented payment integration functionality, handling transaction flow and third-party payment API interaction

Prodigy InfoTech — Java Backend Developer Intern

Java | Virtual, 2024

- Implemented CRUD operations in Java with and without database connectivity, covering core backend data-handling and application-logic fundamentals

CERTIFICATIONS

- Cisco — Networking Basics
- Deloitte — Cyber Security Job Simulation

ACTIVITIES & PUBLICATIONS

- National Level Conference Participant, VSB College of Engineering Technical Campus — Presented a paper on "ERP-Based Integrated Student Management System" at "Recent Trends in Renewable Energy and Environmental Sustainability" (ISBN: 978-81-993497-3-5)

EDUCATION

VSB College of Engineering Technical Campus — B.E. Computer Science and Engineering | CGPA: 8.6 | 2023–2027

Government High School, Coimbatore — HSC | 85.5% | 2022–2023