S Rithika

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EDUCATION

SSN COLLEGE OF ENGINEERING
B.E Computer Science and engineering
OMR , TamilNadu
Cum. GPA: 8.95 | 2022-2026

BOAZ PUBLIC SCHOOL
AISSCE
Chennai ,TamilNadu
PERCENTAGE: 87.6 | 2021-2022

BOAZ PUBLIC SCHOOL
AISSCE
Chennai ,TamilNadu
PERCENTAGE: 92.7 | 2019-2020

SKILLS

PROGRAMMING
Java | C | Python | Javascript

WEB TECHNOLOGIES
HTML | CSS | Bootstrap | Tailwind CSS | React.js | Redux | Node.js | Express.js

TOOLS AND TECHNOLOGIES
Git | Github | MySQL | MongoDB | Redis | REST APIs | Firebase | Docker| Linux | CI/CD | Axiom | Autosys

MACHINE LEARNING
Scikit-learn | TensorFlow | PyTorch | Qiskit

TECH PROFILE LINKS

Github : rithikakalaimani
LinkedIn : rithika-kalaimani-s24
Leetcode : Rithika
CodeForces : Rithika_S
Coding Profile(GFG) : rithikakalaimani

ACHIEVEMENTS

ACADEMICS
Secured a cash prize of **10K** for achieving a CGPA above 9.0

CODING
CODHER'25: National-level Hackathon by ACM-CEG — Best Project in Automation

Earned multiple badges on **Google Cloud Skill Boost**, accumulating **6115** points and achieving **Silver League** status.

EXPERIENCE

BARCLAYS | Technology Summer Intern
Jun – Aug 2025
- Built **Short-term Liquidity report** in **Axiom** by implementing **10+** data mappings and aggregations, ensuring accurate entity-level **liquidity calculations**.
- Developed RLI **freeform templates** with calculated fields and transformations, streamlining Basel III–aligned reporting.
- Automated **end-to-end report generation** by scheduling **Autosys batch jobs**, reducing manual intervention in regulatory submissions by **40%.**

J.P. MORGAN | Virtual Intern
Jun – Jul 2024
- Fixed **3 key broken files**, ensuring **100%** correct web application output.
- Used JPMorgan Chase's open source library called **Perspective** to improve data feed clarity by **40%** for trader monitoring.

PROJECTS

QUANTUM MUSIC RECSYS   Sep 2025 – present
- Designing a quantum-assisted recommendation engine integrating **QkNN, Grover's algorithm**, and Leveraging **RAG-based context extraction** to enable personalized playlist generation and solve cold-start challenges.
- Tech Stack:**Python,Qiskit, Hugging Face Transformers, Scikit-learn**

QUERYPILOT   Dec 2025 - Jan 2026
- Built a **text-to-SQL RAG system** enabling natural-language analytics over MySQL/Postgres with **schema-aware retrieval** and query safety constraints.
- Implemented **end-to-end query lifecycle** (schema ingestion, semantic retrieval, SQL generation, execution, and summarization) with **read-only enforcement and row limits to 1000** to prevent unsafe queries.
- Tech Stack: **Python, FastAPI, FAISS, HuggingFace, Groq LLM, React, Docker**.

LINKLET   May - Jun 2025
- Developed a production-ready **URL shortener** with Node.js/Express backend; implemented **Base62 encoding**, custom aliases, and **TTL-based link expiration.**
- Integrated **Redis caching for sub-100ms** redirects, MongoDB for persistent storage, and **per-link analytics** (clicks, unique visitors, geo, browser, referrer).
- Tech Stack: **Node.js, Express, MongoDB, Redis, React, Firebase, Recharts**

ADSYNC   Mar - Apr 2025
- A influencer marketing platform enabling smart **100+ niche-aligned influencers** matching ,reducing manual effort by **70%, automated post scheduling**, and **end-to-end campaign tracking** with short URLs using **click tracking** service.
- Tech Stack: **Streamlit, Flask, Node.js, MongoDB, Meta Graph APIs**.

NETFLIXGPT   Jan -- Feb 2025
- Developed a Netflix-inspired movie recommendation platform using React with Redux state management and Firebase, achieving **100% authentication security** with Firebase.
- Optimized **API requests** and implemented **memoization**, reducing redundant API calls by **40%**and improving app performance.
- Tech Stack: **Firebase, React, JavaScript, Redux, HTML, TailwindCSS**