Gokula Krishnan

Aspiring Software Developer

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leetcode.com/u/Gkode/ | github.com/KGK-7 | gk-web-portfolio.netlify.app/

Objective

Aspiring Software Developer skilled in Java, Python, and backend APIs. Experienced with FastAPI, React, and cloud deployments, eager to contribute to scalable software projects while growing in AI/ML technologies.

Skills

Technical Skills
- **Programming Languages:** Java, Python, JavaScript.
- **Core Concepts:** Data Structures, Algorithms, Object-Oriented Programming (OOP), Problem Solving on LeetCode, Basic System Designs
- **Backend:** FastAPI, Flask, Django, Node.js (Express)
- **Frontend:** HTML, CSS, Javascripts, React.js, Streamlit.
- **Databases & Caching:** SQL (MySQL/PostgreSQL), MongoDB, Redis Caching (Docker Integration), ORM (SQLAlchemy)
- **Testing:** Unit Testing, PyTest, Postman (API testing), cURL (API & endpoint testing)
- **Version Control & Deployment:** Git, GitHub, Render, Vercel, Netlify.
- **Cloud & DevOps Basics:** AWS (EC2), Docker, CI/CD Concepts.
- **AI | ML & Tools:** scikit-learn, TensorFlow, Pandas, NLP, Computer Vision, Ollama, QwenCoder, Hugging Face.

Interpersonal Skills:
- **Communication:** Clear and effective in both written and verbal interactions.
- **Consistent Learner:** Continuously updating knowledge and skills in technology and professional growth.
- **Time Management:** Efficiently prioritizes tasks to meet deadlines without compromising quality.

Internship

Data Analyst Intern, NextSkill Technologies   07/2025
- Analyzed raw datasets using Python (Pandas, NumPy) for cleaning and preprocessing.   Coimbatore
- Designed interactive dashboards in Power BI to visualize trends and KPIs.
- Helped reduce manual reporting efforts by automating recurring data workflows.

Education

Master of Computer Applications,   2024 – 2026
Dr. Mahalingam College of Engineering and Technology   Pollachi, Tamilnadu
[Computer Application] 8.5 CGPA.

Bachelor of Computer Science, APA College of Arts and Culture   2021 – 2024
[Computer Science] 7.5 CGPA   Palani, TamilNadu

High Secondary School, Velan Vikhass Matric HR.SEC. School   2020 – 2021
[Computer Science] 92.92%   Palani, TamilNadu

Projects

FastAPI CRUD Web Service
- Built and deployed a RESTful API with FastAPI and SQLite, supporting Create/Read/Update/Delete method operations- **Demo**
- Validated endpoints using **Postman and cURL**, ensuring reliable request/response handling.
- Deployed live on **Render**, enabling real-time access to endpoints and cloud-based testing.
- Demonstrated **backend API development lifecycle** from local coding to cloud deployment.

Resume Skill Matcher
- Built an **Applicant Tracking System (ATS)** that analyzes resumes, extracts skills, and generates a **match score** against job requirements- **GitHub**
- Designed and implemented **RESTful APIs** for data exchange, using **HTTP methods & JSON handling**.
- Integrated with **MySQL database** to store and retrieve candidate profiles efficiently.
- Implemented automated skill extraction and candidate-job matching logic, simulating industry-standard ATS functionality.
- Demonstrated how AI-driven screening can reduce manual recruiter workload.

Web News Feeder
- Developed a Flask-based web application that aggregates and displays real-time news articles from multiple sources- **GitHub**
- Designed **Flask routes with HTTP methods (GET, POST)** to handle dynamic content delivery.
- Integrated with **third-party News APIs** to fetch and update articles automatically.
- Implemented MySQL database storage and retrieval to efficiently manage categorized news data.
- Enhanced user experience by enabling **category-wise browsing**, improving accessibility and relevance.

Quantum MRI Classifier
- Developed a hybrid quantum-classical model for brain MRI classification using Python, TensorFlow, and PennyLane - **GitHub**
- Preprocessed MRI datasets with **feature resizing and multi-class label encoding.**
- Integrated a quantum layer into a neural network to enhance pattern recognition in MRI features.
- Applied advanced training techniques (early stopping, learning rate scheduling, GPU acceleration) to improve model stability and performance.
- Evaluated results using **confusion matrices, classification reports, and training curve visualizations**, demonstrating the potential of **AI + Quantum Computing** in healthcare applications.

Certifications

Java Programming
Issued by CSC Education

Python Programming
Issued by Linkedin Learning

Artificial Intelligence Foundation
Issued by Linkedin Learning

Natural Language Processing
Issued by Infosys Springboard

Achievements

Won in Inter-College level Ideathon competition,   09/2023
Sri Krishnasamy Arts and Science College

Organized and managed an event - Web wizardry, Dr. MCET   01/2025

Participated in Inter-College level Technical Symposium, PSG College of Technology   08/2024

Participated in Inter-College level Symposium, Hindusthan Institute of Technology   08/2024