

# Gokula Krishnan

## Aspiring Software Developer

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[leetcode.com/u/Gkode/](https://leetcode.com/u/Gkode/) | [github.com/KGK-7](https://github.com/KGK-7) | [kgk-web-portfolio.netlify.app/](https://kgk-web-portfolio.netlify.app/)

### Objective

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

### Skills

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#### 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

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#### Data Analyst Intern, NextSkill Technologies

07/2025

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

Coimbatore

### Education

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#### Master of Computer Applications,

2024 – 2026

Dr. Mahalingam College of Engineering and Technology  
[Computer Application] 8.5 CGPA.

Pollachi, Tamilnadu

#### 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

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### 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

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### Java Programming

Issued by CSC Education

### Python Programming

Issued by Linkedin Learning

### Artificial Intelligence Foundation

Issued by Linkedin Learning

### OpenAI GPT Models

Issued by Infosys Springboard

## Achievements

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**Won in Inter-College level Ideathon competition,**  
Sri Krishnasamy Arts and Science College

09/2023

**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