

M.Arun Kumar

Villupuram, Tamil Nadu | arunkumaraiaadds@gmail.com | 9025455849
linkedin.com/in/arunkumar-mahendiran | github.com/Aruncodings | bit.ly/Arun_portfolio

Professional Summary

Freelance backend developer specializing in Python, Flask, and data-driven solutions. Experienced in building scalable applications, automating workflows, and delivering high-quality client-focused projects. Passionate about clean code, modular architecture, and solving real-world problems with technology.

Education

M.Sc. Artificial Intelligence & Data Science

Takshashila University

2022 – 2024

CGPA: 9.19

B.Sc. Physics

E.S. Arts & Science College

2019 – 2022

CGPA: 7.6

Professional Experience

Freelance Python Developer

2024 – Present

- Delivered custom solutions for clients including web scraping, data processing, and API integration using Python and Flask.
- Collaborated with clients to gather requirements, design modular systems, and ensure on-time delivery.. Focused on performance optimization and clean, maintainable code for long-term usability.

Python Developer Intern, ABI Tech Solutions, Pondicherry

Apr 2024 – Jul 2024

- Reviewed backend logic and validated output formats to ensure alignment with client requirements and business rules.
- Participated in QA workflows and contributed to automation scripts for faster validation cycles.

Projects

Gemini API Chatbot with Voice Integration

Aug 2025

GitHub: github.com/Aruncodings/gemini_chatbot

- Built a conversational chatbot using Gemini API integrated with Flask for web deployment.
- Implemented SQLite-based user authentication (login/signup) for personalized sessions and chat history tracking.
- Added voice-to-text support to allow users to interact with the chatbot hands-free, enhancing accessibility.

Web Scraper & Summarization Toolkit

May 2025

GitHub: github.com/Aruncodings/web_scrapper_toolkit

- Built a Python-based tool to extract and summarize web content using NLP and sentiment analysis techniques.
- Implemented relevance filtering and keyword extraction to improve summarization clarity and reduce noise.
- Used BeautifulSoup, Newspaper3k, and NLTK to parse articles and generate concise summaries for research use.

Image-to-OCR Voice Toolkit

Apr 2024

GitHub: github.com/Aruncodings/ocr_toolkit

- Developed a tool that extracts text from images and converts it into speech for accessibility applications.
- Integrated PyPDF and Tesseract OCR to handle scanned documents and ensure high recognition accuracy.

Technologies

Frontend: HTML5, CSS3, JavaScript (ES6+), React (Basics)

Backend: Python (Flask, Django), RESTful APIs, OpenAI API, LangChain (Basics)

Database: MySQL, SQLite

Tools & Platforms: VS Code, Git, GitHub, Postman, Prompt Engineering (Few-shot, Zero-shot, Chain-of-Thought)

Design Tools: Figma, Adobe Photoshop, Adobe Illustrator

Soft Skills: Problem Solving, Team Collaboration, Adaptability, Task Ownership, Rapid Learning, Clear Communication