

Aditya Gaur

Building AI-First Software

📍 Delhi, India

✉ gauraditya@outlook.in

☎ +91 8368763700

🌐 <https://github.com/xdityagr>

About Me

I am a passionate Software Engineer with a proven track record of building intelligent, impactful applications that blend AI, IoT, and clean design to solve real-world problems. I have been recognized for national hackathon wins, project funding, and a strong portfolio specializing in full-stack solutions, developer libraries, and AI-powered tools. I love tackling complex problems, learning technologies from the ground up & recreating them from scratch to learn how they work in detail. I leverage a freelancing background with international clients to deliver innovative and robust technological solutions.

Skills

- **Programming Languages:** Python, C++, C, C#, JavaScript, Java (basic), Embedded C
- **Frameworks & Libraries:** Qt GUI (PyQt/PySide), .NET, Unity (C#), Flask, FastAPI, and core Python libraries (Pillow, NumPy, OpenCV)
- **Web & Database:** HTML, CSS, JavaScript, React, Node.js, Firebase Auth, Firestore, PostgreSQL, MySQL, Redis
- **AI, ML & Tooling:** TensorFlow, PyTorch, Scipy, LangChain, Ollama, Custom AI Pipelines
- **API Integration:** REST APIs, Meta API (Whatsapp, Instagram, etc.) RapidAPI, OpenAI, Gemini, Ollama, other major LLM API's
- **Version Control & DevOps:** Git, GitHub, Docker (containerizing Python/AI apps)
- Object-Oriented and Functional Programming,
- Asynchronous (AsyncIO) Programming, Parallel Programming & Threading
- **UI/UX & GUI Development:** Used Figma, Clean, responsive desktop UIs using beginner UX principles.
- **Software Engineering Practices:** Troubleshooting, unit testing, cloud and local deployment, used Multi-Model System Architecture, Familiar with coding principles
- **Hardware & IoT:** Arduino IDE, RFID modules, LoRa modules, TFT Displays, cloud sensor dashboards (Using ThingSpeak by Matlab), integrated hardware-software solutions

Education

- **Class 12 (CBSE)** | Vikas Bharati Public School, Delhi
- **Bachelor of Technology (B.Tech), Computer Science Engineering** | Manipal University, Jaipur (2025-2029)

Interests

- **Creative Arts:** Passionate about writing poetry, playing drums, and graphic design.
- **Strategic Development:** Enjoy playing chess and participating in hackathons and industry webinars.
- **Music & Culture:** Actively follow diverse music and attend live events.

Languages

- English
- Hindi

Achievements & Awards

- **Winner**, Smart India Hackathon (SIH) 2024 - Project funded & patenting by **MoE & AICTE**
- **Interviewed by AICTE Innovation Director** for national recognition
- **₹20,000 Winner, Code Red 2.0 Codethon** by ACIC-VGU Foundation (2023)
- **Winner, Design Championship** (Coding Category, North & East India)
- **Winner, National Science Exhibition** (Regional Level)
- **Top 20 Finalist, IBM & TMIB India AI Youth Awards** - Presented AI solution in Bangalore
- **Top 20, Delhi Hackathon 2024**
- **Won multiple awards** in graphic design, video editing, & documentary competitions at inter-school & state level
- **Leadership roles as Secretary, STEAM Club & Reader's Club** - organized tech and literary events, edited publications, and directed an author documentary for Mrs. Paro Anand at Author's Meet

Experience

Freelance Software Developer | Remote

2022 – Present

Delivered over 15+ full-stack applications, AI tools, IoT integrations, and GUI libraries for international clients via Fiverr, consistently maintaining 5-star client ratings and positive feedback.

- Specialized in developing AI-powered utilities, face recognition tools, custom voice assistants, and IoT dashboards integrating hardware.
- Built full industry grade software US-based for startup & individuals from design mockups to full applications.
- Built multipage authenticated websites, interactive desktop apps, and developer productivity tools, managing complete development cycles from client requirement analysis to deployment and support.
- Recognized for delivering optimized, scalable, and polished software tailored to business and user needs across diverse domains.

Independent Software Developer

2021 – Present

Independently developed 20+ AI, IoT, and productivity-focused software projects for competitions, for developer community and personal learning

- Researched and built Fusion, a custom programming language interpreter exploring interpreter architecture, concurrency, and language design.
- Regularly practiced Data Structures and Algorithms, actively solving problems on LeetCode and applying optimized algorithms in real-world applications.
- Participated in national-level hackathons and coding contests, earning awards, project funding, and national recognitions for technical innovation and execution.

Projects

- **Anna (अन्न) Rakshak:** AICTE Funded Smart India Hackathon 2024 Winner. Developed a smart IoT-based food grain spoilage detection system, multi-gas sensors, and TFT displays, integrated with cloud dashboards for real-time alerts. [Tech Stack : C/C++, ESP32, IoT Sensors, ThingSpeak](#)
- **SHIELD (System for Halting Illegal Exploitation and Ensuring Lasting Defense for Women):** AI & IoT-Based Women Trafficking Prevention System. Nationally recognized, showcased at CBSE Regional Science Exhibition and IBM AI Youth Awards. Built a wireless sensor network with AI facial recognition, RFID scanning, and LoRa communication for real-time tracking and safety alerts. [Tech Stack : Python, C++, PyQt5, Arduino, ThingSpeak](#)
- **CaretAI:** Quick state-of-the-art model access tool, right beside your cursor for instant access to AI models like Gemini, DeepSeek, and Qwen via a double Shift key combo. Supports theming and clipboard integration for seamless AI-assisted workflows. [Tech Stack : Python, LangChain, LLM APIs, etc.](#)
- **DiscoverQuotesDaily Bot:** Winner of DesignChampionship 2024 Coding Category, A Powerful Twitter bot that fetches inspirational quotes via API, generates Images with quote, captions it using AI, and posts them on Twitter using Tweepy with scheduled automation. [Tech Stack : Python, Pillow, Numpy, Tweepy, OpenCV, LLM APIs, etc.](#)
- **Additional Projects:** Fusion (custom programming language interpreter), AI face recognition system, AI voice assistant, Snippify (code snippet manager), DCAUD (AI-Powered Discord voice detection library), Octave Music, QCFx GUI effects library, AirDex weather app, freelance client software, and Unity games.