Aditya Kumawat | Software Developer

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Objective

AI/ML-focused software developer with strong backend and quantitative trading systems experience. Skilled in building data-driven frameworks, ML-based strategy discovery pipelines, and scalable backend systems. Seeking to apply machine learning and system design skills to real-world, high-impact problems.

Education

Bachelor of Computer Application (B.C.A)
Tirupati College of Technical Education, Jaipur — 2025

Commerce Maths
Shree Maheswari Sr. Sec. School, Jaipur

Skills

- **Languages:** Java, C++, Python, JavaScript, SQL, HTML, CSS
- **Machine Learning & AI:** ML Algorithms, Model Training & Evaluation, TensorFlow, NLP, Basic DL.
- **Frameworks & Tools:** Spring Boot, REST API, Jakarta EE, Rasa, Whisper.cpp, Mozilla TTS, jQuery
- **Data & Databases:** NumPy, Pandas, MySQL/MariaDB
- **Dev & Cloud:** Git, GitHub, VS Code, Eclipse, Linux (Arch), Windows, AWS EC2, AWS RDS systems
- **Core Concepts:** OOP, Data Structures & algorithms, Multi-threading, API Integration, Problem Solving

Experience

Software Developer — Qubitron Labs (September 2025 — Present)

- Built a **quant strategy discovery framework** that generates and analyzes all possible trades from historical OHLC data to identify repeatable market behaviors.
- Developed a **layered feature-engineering pipeline** enriching price data with **200+ configurable indicators and patterns** for systematic experimentation.
- Applied a **Decision Tree Regressor** to extract common profitable market conditions and validated strategies across markets using metrics like **Profit Factor, Sharpe Ratio, regime and time-based analysis**.

Software Developer — Trade Amplification (August 2024 — December 2024)

- Developed trading bots and automation systems using **MQL5**, **Python**, and **Pine Script** for real-time signal execution.
- Built subscription systems, signal servers, and Telegram bots using **Spring Boot**, **Python**, and **C++**.
- Delivered scalable backend solutions with strong focus on performance, API design, and server-client reliability.

Projects

Elisa Assistant (2025)
GitHub: github.com/Adikumaw/elisa-assistant

- Performs voice-activated tasks like launching apps, setting reminders, weather updates, browser search, and interactive typing.
- Integrates Rasa, Whisper.cpp, Porcupine, Mozilla TTS, and PyAudio for robust NLP-driven voice control.
- Supports both Linux (optimized for Arch) and Windows platforms. Includes a clean, animated web-based UI for interaction/testing.

Stella — E-commerce Backend (2024)
GitHub: github.com/Adikumaw/stella

- Developed a secure backend using Java Spring Boot with Spring Security and JWT authentication.
- Designed and exposed RESTful APIs for managing users, products, orders, and integrated a payment gateway for transactions.
- Focused on security, modularity, and scalability to deliver a clean, production-ready backend system.

Rubik's Cube Solver (2024)
GitHub: github.com/Adikumaw/rubix-cube-solver

- Created a complete 2D cube simulation and solving engine using C++ with move representation.
- Designed a layer-by-layer solving algorithm that dynamically adjusts based on cube state.
- Interactive CLI for shuffling, displaying, and step-by-step cube solving demonstration.

Certifications

- **Java Industrial Program,** WorinWell (April 2024 — May 2024)
- **Python Bootcamp,** Edureka Learning Center — 1st Place (March 2024)
- **Multiple Udemy Certifications:** Java (Spring Boot + MVC + JPA), C++, Python, Web Designing.

Notable Traits

Teamwork & Communication, Adaptability & Curiosity, Strong grasp on problem-solving and system design, Open to relocation & remote work.