

# PAWAN KUMAR

Software Developer

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## ABOUT ME

I'm a curious and hands-on developer who loves building things from the ground up — especially systems that feel smart, efficient, and thoughtfully designed. Whether it's crafting an in-memory NoSQL database, experimenting with AI models, or diving deep into backend logic, I enjoy solving real problems with code. I'm always learning, always improving, and looking to join a team where I can grow while contributing meaningfully to the work that matters.

## EDUCATION

**MANAV RACHNA  
INTERNATIONAL  
INSTITUTE OF  
RESEARCH AND  
STUDIES**  
**BCA (AI&ML)**  
2024 – 2027

## WORK EXPERIENCE

- TATA DATA VISUALISATION: EMPOWERING BUSINESS WITH EFFECTIVE INSIGHTS JOB SIMULATION** JULY 2025
  - Completed a simulation involving creating data visualizations for Tata Consultancy Services
  - Prepared questions for a meeting with client senior leadership
  - Created visuals for data analysis to help executives with effective decision making
- GE AEROSPACE EXPLORE ENGINEERING VIRTUAL EXPERIENCE PROGRAM** JULY 2025
  - Completed a job simulation where I advised on alternative energy sources for a hypothetical Aerospace team at GE
  - Analyzed and compared diverse energy sources for propulsion systems, including cost, energy density, storage requirements, and how they impact design decisions
  - Conducted in-depth research on bypass ratio and compression ratio and their impact on turbofan engine design, including fan diameter, noise, installation considerations, material limitations, and emissions implications
- CREATOR & LEAD DEVELOPER – ELECTRUS JAN 2025 – PRESENT NOSQL DATABASE**  
Built a lightweight, in-memory NoSQL database with JSON-based persistence, ACID-compliant transactions, and MongoDB-style querying. Designed its modular architecture with a custom query engine, support for indexing, aggregation, joins, and async-safe file handling.

**Github:** <https://github.com/axiomchronicles/electrus>

## SKILL

- Analytics & Insights
- Programming Languages: Python, JavaScript, Bash
- Backend: Async programming, REST APIs, File-based systems
- Architecture: Modular design, Middleware, Caching
- Tools & Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter, FastAPI, Git, Linux

## LANGUAGE

- Hindi
- English

## PROFESSIONAL DETAILS

- [linkedin.com/in/pawan-kumar-672356327](https://linkedin.com/in/pawan-kumar-672356327)
- [github.com/axiomchronicles](https://github.com/axiomchronicles)
- [My Portfolio](#)