

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**

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

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 NOSQL DATABASE** **JAN 2025 – PRESENT**

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.

Glithub: <https://github.com/axiomchronicles/electrus>

PROFESSIONAL DETAILS

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