

# Aakash Jha

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**Python Software Developer** with hands-on experience building **scalable backend systems**. Skilled in integrating **AI-powered features**, distributed task processing, real-time systems, and **data-intensive backend** platforms. Strong foundation in **full-stack development**, API design, system architecture, and building reliable, high-performance systems.

## Technical Skills

**Programming Languages:** Python, JavaScript, Java, C

**Backend:** FastAPI, Django, Django REST Framework, Flask, Celery, Channels, WebSockets

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

**Frontend:** React.js, Redux, HTML, CSS, JavaScript, Bootstrap, Tailwind CSS

**AI / ML:** Scikit-learn, Pandas, NumPy, Matplotlib, Retrieval-Augmented Generation (RAG)

**DevOps & Tools:** Docker, Git, GitHub, Linux, Postman, Vercel, AWS

## Experience

### ➤ **V-Patrol AI** | Python Software Developer (March 2026 – Present | Gurugram, Onsite)

**Tech Stack:** Python, FastAPI, Django, MongoDB, Redis, Elasticsearch, Docker, GitHub, AWS

- \* Develop and maintain **scalable Python backend services**, supporting high-throughput production workloads.
- \* Implement **Elasticsearch-powered pipelines with databases** for fast, low-latency data retrieval across large datasets.
- \* Leverage **Redis** for caching and session management, reducing database load and improving API response latency.
- \* Deploy and integrate backend services on **AWS and Linode**, ensuring scalable and reliable cloud infrastructure.
- \* Optimized **real-time data processing pipelines** to efficiently process **billions of data events daily**.
- \* Collaborated with cross-functional teams to integrate **AI-powered automation pipelines** into existing backend systems.

### ➤ **We Solve For You** | Full Stack Developer (August 2025 – February 2026 | Delhi, Hybrid)

**Tech Stack:** Python, Django, DRF, React.js, Redux, PostgreSQL, Redis, OpenAI, Razorpay, Twilio, Git, WebSocket

- \* Contributed to **Atom Analytics**, an AI-powered software platform delivering real-time product insights for businesses.
- \* Reduced backend processing & cron job **execution time by 40%** through multithreading and **DB** query optimization.
- \* Designed distributed task processing using **Celery & Redis** for asynchronous reporting & offloading **heavy workloads**.
- \* Implemented event-driven **automation** for workflows and report generation, eliminating manual intervention.
- \* Developed Atom.AI real-time **chat system** via **WebSockets** and integrated **WhatsApp chatbot** for smooth interaction.
- \* Improved system performance using **Redis caching** and built a **rate limiter** system for premium feature access control.
- \* Developed responsive, high-performance **dashboards & UI** with React.js and Redux, enhancing user experience.

## Projects

### ➤ **Tweet.AI** [\[Link\]](#)

[**Tech Stack:** Python, Django, DRF, MySQL, Redis, WebSocket, React.js, Redux, Bootstrap, HTML, CSS, JS]

AI-Powered Social Media Platform Inspired by Twitter(X) with user-centric **features:** *tweet creation, retweeting, likes, bookmarks, threaded-comments, follow, explore feed, real-time notifications, user recommendation system.*

- **Sentiment analysis** on each tweet using TextBlob, allowed filtering of positive, negative, and neutral comments.
- **Summarize** long tweet & comment for concise content previews by using HuggingFace Transformers pipeline.
- **Real-time chatting** with typing indicators using Django Channels & redis-layer for a WhatsApp-like experience.
- Integrated an **AI-powered assistant** with interactive and syntax-highlighted Markdown responses.

### ➤ **Chat with Your Database**

[**Tech Stack:** Python, FastAPI, PostgreSQL, OpenAI, SQLAlchemy, React.js, TailwindCSS, HTML, CSS, JS] [\[Link\]](#)

AI-powered web application enabling users to interact with any PostgreSQL database using natural language by simply providing DB connection or credentials (user, password, db\_name, host, port).

- **No SQL Knowledge Required** - Query your database in simple natural language like Hindi, English, etc.
- **Visual Results** - Paginated table view, syntax-highlighted SQL query, and dark mode theme.
- **Safe Operations** - Confirmation dialogs for sensitive operations (UPDATE, DELETE, INSERT).
- **Data Interaction Tools** - Quick query templates, recent query history tracking, and data export feature.

## Achievements

- National Finalist - Smart India Hackathon (IIT Tirupati)
- Solved 200+ coding problems on GeeksforGeeks and LeetCode
- Finalist in multiple hackathons including Hacknovate 5.0, Hackaccino 3.0, and Ideathon

## Education

ABES Institute of Technology, Ghaziabad, UP (AKTU)  
o **B.Tech** (Computer Science and Engineering)

2022-2026

7.9 CGPA

Kendriya Vidyalaya Sangathan, Delhi (CBSE)

o **Class 12<sup>th</sup>** (2022)

Percentage: 92.0%

o **Class 10<sup>th</sup>** (2020)

Percentage : 88.4%