

Yash Aggarwal

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EXPERIENCE

Analyst

Dec 2025 – Present

Ernst and Young LLP

Gurugram, Haryana

- Automated end-to-end tax compliance workflows by engineering Python pipelines (Polars, FastExcel), reducing manual data preparation time by **300+ hours** annually.
- Architected high-speed data transformation engines to process large-scale datasets (**50K+ rows/file**), ensuring 100% accuracy in compliance-ready Excel outputs.
- Developed **intelligent rule-based logic** for automated tax categorization and conditional remark generation, eliminating human error in sensitive compliance reporting.
- Optimized data integrity by building robust reconciliation modules and exception-handling checks to flag mismatches across disparate tax datasets.
- Engineered resilient automation scripts capable of **parsing irregular "real-world" Excel structures**, including merged cells and inconsistent formatting.
- Streamlined **multi-source consolidation** by implementing automated lookups and merging workflows, minimizing manual intervention in final report generation.

Software Developer

Jan 2024 – Dec 2025

Lyxel labs private limited

Gurugram, Haryana

- Developed and revamped Weavr Sense by integrating **cross-server databases** via custom REST APIs, improving **data retrieval speed by 25%** through MongoDB query optimization.
- Led development of MongoDB models and scrapers in the automation pipeline.
- Developed scalable serverless features and automated data handling tasks in a Linux environment using Redis and Celery using managed API endpoints.
- Streamlined scraping pipelines using Celery and Python, **reducing manual effort by 40%** while ensuring robust version control via Git.
- Designed secure registration/login APIs with security and data protection best practices, ensuring normalized data storage (1NF/2NF).
- Mentored 3 interns and assisted in knowledge transfer for backend architecture and CI/CD practices.

Backend Developer

Mar 2023 – Aug 2023

Freelancer

Remote

- Developed a scalable Inventory Management System using NodeJS, MongoDB, and ExpressJS.
- Ensured optimized CRUD operations, contributing to 35% faster inventory updates.
- Implemented **role-based access control**.
- Integrated NodeMailer for automated notifications added full user-action logging.
- Delivered end-to-end development of features and integrated NoSQL storage solutions efficiently.

TECHNICAL SKILLS

Languages: Python (Expert), JavaScript, Shell Scripting, SQL, MongoDB

Frameworks: FastAPI, Flask, Falcon, NodeJS, ExpressJS

Data Engineering: Polars, pandas, NumPy, FastExcel, PyExcelebrate

Cloud/DevOps: Git, Linux

Tools: VSCode, PyCharm, GitHub CoPilot

EDUCATION

Bennett University

Greater Noida, Uttar Pradesh

Bachelor of technology in Computer Science and Engineering

Sep. 2020 – Jun 2024

- Content Writer IEEE BU, 2020 to 2021*
- 8.9 CGPA*

PROJECTS

SMTP Honeypot | *Python, smtpd, Async*

Mar 2023

- Developed a honeypot server using Python and the smtpd library.

Twitch Watcher Discord Bot | *Docker, Python, Discord, Requests*

Jan 2023 – Feb 2023

- Built a bot to streamline server interactions and RLCS loot acquisition.
- Deployed using Docker for isolated, consistent performance.

Remote Intensive Care Application | *Python, Flask, SQLite, Pytest*

Oct 2021 – Dec 2021

- Built a web-based ICU system using agile methods, boosting efficiency by 30%.
- Optimized database queries and schema to improved data retrieval speed by 40%, enhancing overall performance of the web application.
- Used Pytest to develop and execute comprehensive test suites for API testing, ensuring functionality, reliability, and performance of RESTful services