

RIDDHI JAIN

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science

Expected Dec 2026

Cumulative GPA: 3.66/4.00

Relevant Coursework: Systems Programming, NLP, Design & Analysis of Algorithms, Database Systems

Acropolis Institute of Technology & Research, Indore, India

Bachelor of Technology in Computer Science and Technology

May 2023

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, Java, Bash

Frontend/Backend: React.js, Next.js, Django, FastAPI, Node.js, RESTful APIs, WebSockets

Data & ML: Pandas, NumPy, scikit-learn, PyTorch, Jupyter Notebook, Data cleaning, EDA, Feature Engineering

Cloud/DevOps: AWS (EC2, S3, CloudWatch), Docker, Git, GitHub, GitHub Actions, Terraform, CI/CD pipelines, Linux/Unix

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLAlchemy

Certifications: Oracle Cloud Infrastructure Certified Data Science Professional, AWS Certified Cloud Practitioner

PROFESSIONAL EXPERIENCE

Global Health Impact, Data Analyst | Binghamton, NY

Sep 2025 – Present

- Co-designed and standardized the WHO TB-2017 workbook into a reusable entity map (country to strain to regimen to drug to company) with faculty/RA partners for cross-year reuse
- Co-developed Python/Pandas ETL to parse sheets, join "need" data, apply regimen weights, and export 4,991 normalized rows plus 868 rollup summaries to CSV through peer reviews
- Collaboratively computed per-drug impact scores (E, H, R, Z, MDR/XDR), reducing manual spreadsheet work by about 80% and aligning methods for drug-level comparisons

Imentus Technologies Pvt. Ltd, Full Stack Developer | Indore, India

Feb 2023 – Dec 2024

- Built real-time trading platform using Django REST + React to process 50,000+ monthly market data rows with PostgreSQL optimization, reducing query latency by 40% through indexed queries and connection pooling
- Engineered FastAPI microservices integrating ML models via BentoML for automated trade signals, delivering P/L predictions with 85% accuracy across production while handling 500+ API requests daily
- Deployed containerized services on AWS (EC2, S3) with GitHub Actions CI/CD pipeline, automating BUY/SELL execution and cutting deployment time by 60% while reducing manual intervention by 75%

PROJECT EXPERIENCE

CollabSpace - Real-time Team Collaboration Platform, Independent Project

Jan 2025 – Feb 2025

Technologies: Django Channels, React, PostgreSQL, Redis, WebSockets, Docker, AWS S3

- Built collaboration platform with Django Channels and WebSockets enabling real-time updates for 50+ users, achieving sub200ms latency through Redis message brokering
- Engineered multi-user document editing with conflict resolution to support 10+ simultaneous editors, preventing data loss through operational transformation and locking mechanisms
- Implemented JWT auth with RBAC and AWS S3 file storage processing 1,000+ documents, eliminating unauthorized access and enabling secure collaboration with activity tracking

JobTracker Pro - Application Management System, Independent Project

Nov 2024 – Dec 2024

Technologies: Next.js, Django REST Framework, PostgreSQL, Docker, GitHub Actions, Chrome Extension API

- Architected full-stack SaaS with Next.js and Django REST managing 500+ applications through complete pipeline, improving tracking efficiency via kanban board and search filters
- Developed resume parser using PyPDF2 and python-docx extracting data with 90% accuracy, reducing form-filling time by 70% through auto-population via RESTful APIs
- Built Chrome extension enabling one-click job saving from LinkedIn/Indeed, syncing 200+ daily postings to PostgreSQL and cutting manual entry by 85%

FinanceFlow - Personal Finance Analytics Platform, Independent Project

Sep 2024 – Oct 2024

Technologies: React, Django REST Framework, PostgreSQL, Celery, Redis, Chart.js, scikit-learn

- Built a Django REST finance app handling 10K+ monthly transactions with TF-IDF, achieving 88% auto-categorization
- Built async pipeline with Celery and Redis for scheduled budget reports and alerts, reducing manual tracking by 70% through automated email notifications and investment calculations running on configurable time intervals
- Implemented row-level security in PostgreSQL supporting 100+ users with complete data isolation, maintaining consistent query performance under concurrent access while ensuring zero cross-user data leakage

LEADERSHIP EXPERIENCE

Binghamton University School of Computing, Graduate Assistant (Academic & Data Support)

Aug 2025 – Dec 2025

- Designed and maintained KPI dashboards for inventory flow and operational metrics, improving visibility and stakeholder reporting
- Collaborated with staff and partners to analyze program data, document definitions, and improve participation tracking