

MOHAMMED SHOAIB ASIM

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PROFESSIONAL SUMMARY

Software Developer with strong expertise in full-stack engineering and AI-powered application development. Currently working at Data Panther, where I build enterprise-grade solutions including GRC platforms, RAG pipelines, OCR systems, AI summarizers, PM tools, second-brain knowledge systems, and chat-with-data applications with automated visualizations. Experienced in integrating LLMs (OpenAI, DeepSeek, Ollama) into scalable microservice architectures. Passionate about designing intelligent, production-ready systems that improve decision-making and automation.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, Python, TypeScript, Java, C
- **Frontend:** React.js, Next.js, Tailwind CSS, HTML5, CSS3, Recharts, Redux
- **Backend:** Node.js, Express.js, FastAPI, REST APIs, JWT Auth, Microservices
- **Databases:** PostgreSQL, MongoDB, MySQL, Supabase
- **AI/ML & Data:** RAG Systems, OCR, LLM Integration, Ollama Models, Pandas, NumPy, Scikit-Learn, Power BI
- **Tools:** Git, GitHub, Docker, Postman, Vercel

PROFESSIONAL EXPERIENCE

- **Software Developer – Data Panther Pvt. Ltd.** June 2025 – Present
 - Developed an enterprise-level GRC application supporting risk creation, control mapping, audit trails, automated scoring, workflows, dashboards, and document intelligence
 - Built end-to-end RAG pipelines with vector databases, embeddings, and contextual retrieval for PDFs, Word files, spreadsheets, and emails
 - Engineered OCR extraction engine using Tesseract/Python, achieving 92% accuracy across scanned compliance and legal documents
 - Implemented AI-powered document summarization (extractive + abstractive), reducing analyst reading time by over 70%
 - Created Chat-with-Data system with real-time insight generation, statistical summaries, and dynamic visualizations
 - Developed Second Brain / AI Note Intelligence system with semantic search, auto-tagging, metadata extraction, and multi-LLM support through Ollama
 - Built secure backend microservices with FastAPI, Node.js, and PostgreSQL/MongoDB achieving 99.5% uptime
 - Optimized database queries, caching, and indexing, reducing API latency by 35%
- **AI Intern – Swecha (Summer of AI)** May 2024 – July 2024
 - Engineered and validated 50,000+ dataset samples to improve Telugu LLM accuracy for 80M+ native speakers
 - Built preprocessing pipelines in Python, optimizing data readiness time by 50%
 - Worked with NLP researchers on model evaluation and corpus enhancement

KEY PROJECTS

- **Pastebin Lite – Secure Text Sharing Web Application** *Next.js, React, TypeScript, Tailwind CSS, Vercel*
 - Built a lightweight Pastebin-style application for securely sharing text snippets with controlled access
 - Implemented **expiry-based pastes** allowing users to define automatic deletion timelines
 - Enabled **restricted sharing** where pastes are accessible only to allowed users or selected recipients
 - Designed a clean, responsive UI using Tailwind CSS with focus on usability and minimalism
 - Deployed the application on Vercel with production-ready routing and performance optimizations
 - Live Demo: pastebin-lite-rho.vercel.app
- **Enterprise GRC Platform – Multi-Tenant Risk, Compliance & Audit System** *Next.js, FastAPI, PostgreSQL, Elasticsearch, LLMs, Kafka*

- Engineered an enterprise-grade multi-tenant GRC SaaS platform with RBAC/ABAC permissions and tenant isolation
- Implemented complete GRC lifecycle: Risk Register, Control Library, Findings, Assessments, Policies, Evidence, Workflows, and Document Intelligence
- Built declarative **Rule Engine** for auto-risk creation, scoring, document classification, and automated alerts
- Developed OCR + NLP pipeline for PII detection, similarity search, auto-tagging, and metadata extraction
- Architected microservices including Rule Engine, Workflow Engine, Search Service, Notification Service, and Audit Log Service
- Integrated SSO, JWT security, encryption at rest/in transit, tamper-evident logs, and compliance-grade auditability

• **RAG-Based Document Intelligence Assistant** *FastAPI, Python, Ollama, Vector DB*

- Built production-grade RAG pipeline with chunking, embeddings, semantic search, re-ranking, and contextual response generation
- Supported PDFs, DOCX, CSV, and Excel using Docing for structured document parsing
- Achieved 85% improvement in enterprise QA accuracy using optimized retrieval + metadata filtering

• **OCR + AI Summarization Engine** *Python, Tesseract, LLMs*

- Developed OCR pipeline for structured/unstructured documents with noise reduction preprocessing
- Implemented hybrid summarization combining extractive + abstractive LLM techniques

• **ChatWithData – AI Visualization System** *Next.js, FastAPI, DeepSeek LLM*

- Enabled natural-language data analysis with automated charts, insights, and statistical summaries
- Integrated CSV/Excel ingestion up to 10MB with real-time dataset profiling

• **Second Brain – AI Knowledge System** *Ollama, Next.js, Vector DB*

- Implemented intelligent note management with semantic search, auto-tagging, and memory recall
- Integrated offline LLM reasoning with models such as Llama3, Mistral, and Gemma

EDUCATION

• Bachelor of Engineering in Computer Science	2021 – 2025
Muffakham Jah College of Engineering and Technology, Hyderabad	
CGPA: 8.21/10.0 Coursework: DSA, Algorithms, DBMS, Web Technologies, Machine Learning	
• Intermediate (12th Standard)	2019 – 2021
Narayana Junior College, Hyderabad Percentage: 94.8%	
• Secondary School Certificate	2009 – 2019
Jeevadan High School, Kamareddy CGPA: 9.7/10	

CERTIFICATIONS & ACHIEVEMENTS

- **Winner – Hack Revolution 2025:** Led team of 4 to build winning project in 36 hours
- **Associate Tech Head – CSI:** Conducted 5+ technical workshops impacting 200+ students
- **Full Stack Java Development** – Wipro TalentNext
- **Java Programming Certification** – HackerRank
- **Web Development Certification** – Udemy