Yasha Srinivas

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EDUCATION

Masters of Science in Data Science GPA – 3.9
Illinois Institute of Technology, Chicago, IL

Bachelor of Engineering in Computer Science and Engineering
Visveswaraya Technological University, Bengaluru, India GPA – 3.9

SKILLS

AI & Multi-Agent Foundations:	RAG (Retrieval-Augmented Generation), Vector Databases, Knowledge Bases, Search Indexes, LLM Landscape, Model Context Protocol (MCP), Multi-Agent Systems Concepts
Data Integration & Architecture:	API Development (REST, SOAP, Webhooks), ETL/ELT, iPaaS (Boomi, MuleSoft), Event-Driven Architecture, Pub/Sub, Message Queues, Real-Time Data Flow Management, SOA, Microservices
Cloud & Platforms:	Azure Service Bus, AWS (Lambda, S3, EC2), Snowflake, Cloud Data Lakes, Jenkins, Docker, Git, GitLab
Security & Governance:	OAuth 2.0, OpenID Connect, SAML, Data Governance, JSON, XML
Programming & Databases:	Python, Java, SQL, R, SQL Server, Oracle, MongoDB

PROFESSIONAL EXPERIENCE

Integration Analyst **Jan 2024 – Present**
Hub Group Inc., Chicago IL

- Engineered **real-time SQL monitoring pipelines** to validate enterprise data flows and detect transactional anomalies, strengthening data governance and improving cross-system reliability.
- Architected **scalable SOA + Boomi integration services**, increasing enterprise transaction throughput by **60%** and reducing latency across distributed endpoints.
- Redesigned EDI payload validation and data transformation frameworks, **cutting QA cycle time by 30%** and improving schema consistency across upstream/downstream systems.
- Built **event-driven integration patterns** using Azure Service Bus (topics/queues), improving workflow modularity and **increasing reuse of integration components by 50%**.
- Developed secure **RESTful APIs and pub-sub listener services** to orchestrate ETL data movement between cloud and on-prem applications, leveraging Boomi + Azure API Management.
- Designed **multi-cloud disaster recovery** with automated replication & rollback, achieving **99%+ system availability** across mission-critical workflows.
- Engineered **error-handling and resubmission orchestration** for **8M+ daily transactions**, enabling rapid recovery and higher data pipeline resiliency.
- Built enterprise-scale **MFT transfer pipelines** processing **500K+ financial transaction files/day** using schedulers and AWS S3 event triggers.

Software Engineer **June 2020 – Aug 2022**
Apisero Inc., Bengaluru

- Delivered **50+ MuleSoft API integrations** enabling automated Salesforce logging and replacing legacy, manual Excel-based processes for enterprise clients (CBRE, TRC).
- Created SQL and API-driven real-time validation workflows, increasing data availability and compliance tracking by 30%.
- Optimized API automation and migration strategies during the Mule 3 → Mule 4 modernization effort, reducing manual processing by 40%.
- Successfully **completed three large-scale Mule platform migrations** using Mule Migration Assistant (MMA).
- Implemented CI/CD pipelines using Jenkins, Maven, and Docker, improving deployment consistency and accelerating release cycles.
- Delivered 20+ technical workshops on Mule 4, DataWeave 3.0, and integration modernization best practices.

ACADEMIC PROJECTS

NLP-Based User-Item Segmentation Using BERT & DeepFM - *Python* ***Data Science Practicum***

- Developed an LLM-based recommendation system leveraging **BERT embeddings** and DeepFM, achieving **95% prediction accuracy** for user-item segmentation.
- Gained hands-on experience with transformer-based models, model evaluation, and LLM-driven data grounding.

Financial Risk Detection via Gradient Boosting - *Python* ***Machine Learning***

- Built a high-precision gradient boosting classifier (98% accuracy) to predict credit approval risks, improving

model interpretability and decision automation.

Soil Analysis of Tropical Cameroon & Equatorial Guinea - *R* ***Applied Statistics***

- Designed regression-based models for agricultural soil analysis, reducing reliance on costly lab processes and guiding sampling efficiency.