Shubhankar Mukharjee



Integration Engineer | Enterprise Integration & API Engineering

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PROFESSIONAL SUMMARY

Integration and Software Engineering professional with nearly 4 years of experience at Accenture across enterprise integration, REST APIs, Trade Promotion Management (TPM), and France E-Invoicing & E-Reporting. Experienced in REST API testing and troubleshooting, XML/XSD validation, JSON, data mapping, SAP-integrated workflows, SQL Server, integration testing, and root cause analysis. Currently contributing to France E-Invoicing integrations involving AR/AP invoice flows, compliance platforms, UBL, UN/CEFACT CII, Factur-X, authentication, token handling, and end-to-end request/response validation. Completed a Professional Certificate Program in Generative AI and Machine Learning from IIT Guwahati, with practical exposure to LLMs, prompt engineering, and AI-assisted troubleshooting.

TECHNICAL SKILLS

API & Integration: REST APIs, API Integration, API Testing, XML, XSD, JSON, Data Mapping, Postman, Bruno, Swagger

Enterprise & Data: SAP Integration, SQL Server, SQL, SSMS, Integration Testing, Root Cause Analysis, Data Validation, Trade Promotion Management

E-Invoicing: France E-Invoicing & E-Reporting, AR/AP Invoice Flows, UBL, UN/CEFACT CII, Factur-X, Invoice Lifecycle Validation

Programming & Tools: Python, Java, C#, .NET, Git, Visual Studio Code, SSRS/RDL

AI & ML: Generative AI, Machine Learning, Large Language Models (LLMs), Prompt Engineering, LLM-assisted Troubleshooting

PROFESSIONAL EXPERIENCE

Accenture | Software Engineering Analyst *Dec 2022 - Present*

Progressed across enterprise operations, data, calculations, integration, and digital compliance engagements, moving from MARS TPM to P&G Integration and currently France E-Invoicing & E-Reporting.

EC&V - France E-Invoicing & E-Reporting, Integration Team | *Mar 2026 - Present*

- Validate internal and external REST APIs supporting AR, AP, e-reporting, payment status, and invoice lifecycle workflows using Bruno, Postman, and Swagger across SAP and compliance-platform integrations.
- Perform end-to-end integration validation across SAP, compliance platforms, and downstream systems by analysing request/response payloads and integration dependencies.
- Validate 200+ invoice XML documents per month against XSD schemas, namespaces, and business rules, identifying recurring schema-level validation issues and required fixes.
- Validate invoice structures and mappings across UBL, UN/CEFACT CII, and Factur-X, including field mappings, cardinality, and nested structures from O2C/MM specifications.
- Troubleshoot authentication and integration failures involving token generation, HTTP 401/403/500 responses, payload errors, and external API communication.
- Document test evidence, integration findings, functional requirements, and issue analysis for cross-functional teams and stakeholders; use LLM tools to assist XML diagnostics and validation.

Accenture | P&G Trade Promotion Management *Dec 2025 - Mar 2026*

Integration & Calculation

- Investigated integration and data-processing issues across SAP and multiple boundary systems, coordinating with functional and technical teams to identify root causes.
- Worked on VIPO calculations and validated calculation outputs against defined business rules and expected outcomes.
- Performed data loads, shipment validation, and production-data analysis to identify inconsistencies across integrated workflows.
- Supported business-rule implementation and calculation validation for enterprise Trade Promotion Management processes.
- Worked directly with clients and cross-functional teams to clarify requirements, analyse issues, and drive integration problems toward resolution.

PROFESSIONAL EXPERIENCE - CONTINUED

Accenture | MARS Trade Promotion Management *Dec 2022 - Dec 2025*

Production, NightChain, StageDB, Integration & Calculation

- Progressed across production operations, NightChain, StageDB, integration, and calculation workstreams supporting a large-scale enterprise TPM platform.
- Implemented and validated business-rule and calculation enhancements based on functional requirements; investigated business-critical calculation and data-processing defects within production SLA commitments.
- Used SQL Server and SSMS for data analysis, validation, troubleshooting, and extraction; contributed to StageDB enhancements, bug fixes, and SSRS/RDL reporting changes.
- Coordinated with upstream, downstream, and boundary-system teams to investigate integration and batch-processing failures.
- Took ownership of critical NightChain operations during production outages, coordinating recovery and validating successful downstream processing.
- Supported disaster recovery drills, failover activities, production deployments, and post-deployment validation; mentored junior engineers through technical guidance and knowledge transfer.
- Across Accenture engagements, investigated 15+ production incidents per month, performing root cause analysis and coordinating service restoration within SLA commitments.

PROJECTS

AI Car Recommendation Assistant | *Personal Project | Prototype in Development*

- Building an AI-powered car-selection prototype for Indian buyers using structured vehicle data covering specifications, pricing, safety, variants, and source-linked review evidence.
- Preparing a knowledge base for Retrieval-Augmented Generation (RAG), curating conflicting specifications, and creating test questions and expected answers to evaluate grounded responses.

Network Project - Samsung India R&D | *Project Team Lead | Jun 2021 - Dec 2021*

- Contributed to API development and network-protocol research as part of a project delivered for Samsung India; defined network concepts and documented user scenarios and technical deliverables.

EDUCATION & CERTIFICATION

Professional Certificate Program in Generative AI and Machine Learning

Indian Institute of Technology Guwahati | Completed 2026

B.Tech / B.E. in Computer Science and Engineering

Siksha O Anusandhan University, Bhubaneswar | 2022 | CGPA: 8.6/10