

Shubhankar Mukharjee

Software Engineering Analyst | Enterprise Integration & API Engineering

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Professional Summary

Software Engineering Analyst with 3+ years at Accenture across enterprise integration, REST API validation, Trade Promotion Management (TPM), and France E-Invoicing & E-Reporting. Experienced in XML/XSD validation, SAP-integrated workflows, SQL-based analysis, calculation logic, and integration troubleshooting. Completed professional training in Generative AI and Machine Learning, with experience using LLM tools for XML diagnostics.

Technical Skills

API and integration: REST APIs, API integration and testing, XML, XSD, JSON, data mapping, Postman, Bruno, Swagger, SAP-integrated workflows

E-invoicing: France E-Invoicing & E-Reporting, AR/AP invoice flows, UBL, UN/CEFACT CII, Factur-X, invoice lifecycle validation

Enterprise and data: SQL Server, SQL, SSMS, TPM, NightChain, StageDB, SSRS/RDL, root cause analysis, integration testing

Programming and tools: Python, Java, C#, .NET, Git, Visual Studio Code

AI and ML: Generative AI, Machine Learning, LLM concepts, Prompt Engineering, Claude-assisted troubleshooting

Professional Experience

Accenture | Software Engineering Analyst

Dec 2022 - Present

Progressed from MARS TPM enterprise operations and calculations to P&G integration, then EC&V France E-Invoicing & E-Reporting.

EC&V | France E-Invoicing & E-Reporting

Integration Team | 2026 - Present

- Validate internal and external REST APIs for AR, AP, e-reporting, payment, and invoice lifecycle workflows using Bruno, Postman, and Swagger across SAP and compliance-platform integrations.
- Validate 200+ invoice XML documents monthly against XSD schemas, namespaces, and business rules; identify schema-level fixes for recurring validation errors.
- Validate UBL, UN/CEFACT CII, and Factur-X documents and invoice mappings, including field cardinality and nested structures in O2C/MM specifications.
- Investigate authentication, token, HTTP 401/403/500, and request/response failures; document test evidence, integration findings, and functional requirements.
- Use Claude and other LLM tools to assist XML error diagnosis and validation.

Professional Experience Continued

Accenture | P&G TPM

Integration & Calculation | Dec 2025 - Mar 2026

- Investigated integration and data-processing issues across SAP and boundary systems, collaborating with functional and integration teams on root cause analysis.
- Worked on VIPO calculations, validated calculation results against business rules, and supported business-rule implementation.
- Performed data loads, shipment validation, and production data analysis to identify inconsistencies across integrated workflows.
- Communicated directly with clients and cross-functional teams to clarify requirements and resolve integration issues.

Accenture | MARS TPM

Production, NightChain, StageDB, Integration & Calculation | Dec 2022 - Dec 2025

- Progressed across enterprise operations, batch processing, data, integration, and calculation workstreams supporting the Trade Promotion Management platform.
- Implemented business-rule and calculation enhancements; investigated business-critical calculation defects and delivered fixes within production SLAs.
- Used SQL Server for data analysis, validation, and extraction; contributed to StageDB enhancements, bug fixes, and SSRS/RDL reporting changes.
- Owned NightChain activities during production outages, coordinating recovery with boundary-system teams and validating downstream process completion.
- Supported disaster recovery drills, failover activities, deployments, and post-deployment validation; mentored junior engineers through knowledge sharing.

Across Accenture engagements: Investigated 15+ production incidents monthly, performing root cause analysis and coordinating service restoration within SLA commitments.

Projects

AI Car Recommendation Assistant

Personal Project | Prototype in Development

- Building an AI car-selection prototype for Indian buyers; preparing a structured knowledge base of specifications, prices, safety, and variant-specific review evidence for retrieval-augmented generation (RAG).
- Curating source-linked records, checking data quality and conflicting specifications, and preparing test questions with expected answers and evidence to evaluate grounded responses.

Network Project | Samsung India R&D

Project Team Lead | Jun 2021 - Dec 2021

- Developed APIs and researched network protocols as part of project work for Samsung India; defined network concepts and documented user scenarios and technical deliverables.

Education and 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 | Grade: 8.6/10