





SURYANATH TRIPATHY

📍 Kolkata, West Bengal || ✉ suryanathtripathy@gmail.com ||  [LinkedIn](#) || +91-7980264868
 [Portfolio](#) ||  [LeetCode](#) ||  [GitHub](#)

SUMMARY

Full-Stack and a Experienced API Developer using JavaScript, Python, Flask SAP BTP Integration Suite with a track record of designing, developing, and deploying robust and scalable solutions

TECHNICAL SKILLS

- **Programming & Core Concepts:** Python, JavaScript, Data Structures & Algorithms, OOPs, System Design, SQL
 - **Web/API Development:** Flask, Jinja, HTML5, CSS3, Bootstrap , JavaScript, SAP BTP Integration Suite
 - **Databases:** MongoDB, SQLite, SQLAlchemy
 - **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib
 - **DevOps & Tools:** Docker, Git, Jenkins, Bitbucket, Agile
 - **Cloud:** AWS
-

WORK EXPERIENCE

TATA CONSULTANCY SERVICES (Systems Engineer)

Oct 2023 - Present

API Developer

- Migrated & optimized 70 APIs from Salesforce MuleSoft to SAP BTP Integration Suite, improving average API response times by 30% in performance benchmarks.
- Designed & deployed an ILCD(Initialize Log Conclude & Distribute) Framework to automate error logging, targeted reprocessing of failed transactions, and API-level/package-level transaction status reporting with automatic email notifications to DEV and AMS support DL groups for rapid issue awareness reducing manual error handling effort by 60% and cutting incident resolution time from hours to minutes.
- Used RFC, Cloud Connector for connecting on-prem systems to cloud and SAP Advanced Event Mesh for decoupling & scalability. Integrated multiple adapters (HTTP, IDoc, SFTP, SMTP, AMQP, AS2) to ensure cross-system compatibility.
- Configured SAP API Management with rate limiting, spike arrest, and basic-authentication policies enhancing API stability and security reducing downtime by 25%.

Backend & Automation Solutions Developer

- Built a secure internal web app using Python, Flask, Robot Framework and Requests & JSON modules hosted on SAP Cloud Application Programming Model (CAPM) . For API load/performance testing during the MuleSoft to SAP BTP migration, removing INR 4–5 L/year in external tools (LoadRunner , NeoLoad) costs and eliminating 100% third-party data exposure risks.
- Implemented multi-threaded concurrent request execution. Stored and managed both MuleSoft & SAP BTP API endpoints with sample payloads in a secure internal DB, enabling consistent, repeatable testing for dev and QA teams.
- Delivered real-time metrics of average/max/min API response time and side-by-side payload comparison to ensure 100% response parity between MuleSoft and SAP BTP APIs guaranteeing downstream compatibility in production between end systems.
- Reduced performance-testing cycles by 50% and cut defect resolution time by 40%, accelerating migration readiness without additional QA resources.

EUREKA SCIENTECH RESEARCH FOUNDATION (Internship)

Aug 2022 -Jan 2023

- Developed a Python based master-client system on Raspberry Pi using socket programming to trigger/sync 16 voice alerts over LAN using TCP from GPIO inputs on master system
 - Implemented real-time control with muting, global shutdown via REST, and industrial-grade deployment.
 - Improved emergency response time by 40% and enhanced safety compliance using low-cost, scalable hardware.
-

EDUCATION

TECHNO MAIN SALT LAKE

Aug 2019 - Jun 2023

B-Tech Electronics & Instrumentation Engineering (9.27 CGPA)

CERTIFICATIONS

SAP Certified Associate - Integration Developer

