TEJAS RAI

Python Backend Engineer | Automation & Data Pipelines | Flask • Node • SQL

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Summary

Python backend engineer with strong experience in automation and data pipelines, building production-ready systems using Python, Flask, Node.js, and SQL. Proven track record of reducing manual processing time by 90%+ through ETL pipelines, internal tools, and workflow automation. Experienced in delivering scalable backend solutions used by 500+ users across business teams.

Experience

Zuari Industries Ltd., Gurgaon, India
Senior Developer

Gurgaon, India
02/2024 - Present

As a Senior Developer at Zuari Industries, I led backend development and business process automation initiatives, building internal platforms and tools that streamlined operations while significantly improving efficiency and overall user experience.

- Automated brokerage-data pipeline (Python, Pandas, MySQL) to validate 35+ AMC Excel files, match scheme names, and output error-free files, cutting quarterly turnaround from 24 hrs to less than 30 minutes.
- Built Python ETL pipeline merging Shilpi, Meon, Redoos CRM exports; reduced daily prep time from approximately 2.5 hours to less than 5 minutes.
- Developed Flask and JavaScript call-retrieval dashboard to search and query thousands of recordings, saving approximately 2 hours per week.
- Created a full-stack travel management app (MERN stack) for dynamic itineraries and automated emails, centralizing records for over 600 employees.
- Collaborated across five business units and two vendors, using data-driven status metrics to keep projects on track.

Egniol Services Private Limited
Application Developer

Ahmedabad, India
05/2023 - 02/2024

- Developed backend modules using Node.js and MongoDB to support internal platforms and startup-facing applications, reducing form processing time by approximately 30%.
- Designed and delivered real-time dashboards for startup funding and performance tracking, enabling faster decision-making for internal teams.
- Integrated automation and data-processing workflows to streamline proposal preparation and reporting for multiple startup engagements.
- Conducted structured training sessions on AI tools (ChatGPT, DALL·E, Tableau) for over 60 staff members to improve productivity and workflow efficiency.

SKILLS

Backend & Automation: Python, Flask, Node.js, REST APIs, ETL Pipelines, Automation, SQL, MySQL, PostgreSQL

Frontend & Full-Stack: React.js, JavaScript, MERN Stack, HTML, CSS

Data & Processing: Pandas, Excel Automation, Data Validation, Reporting Workflows

Tools & Platforms: Git, GitHub, MongoDB, JWT Authentication, Role-Based Access Control, PDF Generation

Education

Indian Institute of Technology, Guwahati
M.Tech. in Chemical Engineering │ GPA: **8.9** / 10

Guwāhāti, India
05/2021 - 05/2023

University of Petroleum & Energy Studies
B.Tech. in Chemical Engineering │ GPA: **6.4** / 10

Dehra Dūn, India
05/2016 - 05/2020

Projects

Project Name

- NFO Approval Workflow System — Built a role-based web application with multi-level approvals, chat, notifications, audit logs, and PDF export.
- CRM Data-Processing & Automation — Automated Python ETL pipelines, cutting daily data preparation time by 97%.
- Excel Automation Tool (RAT) — Developed Excel automation to validate, merge, and generate reports, reducing manual effort by 70–80%.
- Ganna Operations Platform — Migrated a multi-tenant React app from localStorage to a Node.js API with PostgreSQL, JWT auth, and RBAC.
- Automated Brokerage Tool — Reduced quarterly Excel processing time from approximately 24 hours to minutes.