JAY JAISWAL

Software Developer | Full-Stack | Backend | Mobile
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GitHub | LinkedIn | Portfolio | Project Catalogue

SUMMARY

Computer science student with hands-on experience building full-stack web applications, REST APIs, mobile products, Java systems, and data-processing tools. Skilled in translating product requirements into modular features, documented interfaces, responsive user experiences, and testable workflows. Seeking software development opportunities where I can contribute across frontend, backend, and application engineering.

EDUCATION

B.Sc. Computer Science Engineering | 2024 - 2027
Navrachana University, Vadodara
Diploma in Computer Science Engineering | 2021 - 2024
Parul University, Vadodara
10th Standard | GSEB
Bright School, Vadodara

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML, CSS
Frontend and mobile: React, Next.js, React Native, Expo, Vite, responsive UI development
Backend and APIs: FastAPI, Flask, Java Servlets, REST APIs, Uvicorn
Data and databases: Pandas, NumPy, MySQL, Supabase, CSV/JSON processing, YData Profiling
Development tools: Git, GitHub, npm, ESLint, API testing, error handling, virtual environments

RELEVANT PROJECTS

MigrationGuard | Java Migration Verification
github.com/Jay-Jaiswal/Shiftly
- Developed an evidence-led system for verifying Java 8 to Java 17 migrations across source code, tests, and evaluation workflows.
- Organized Java backend, Next.js frontend, Python evaluation, automated tests, and repeatable development commands into one workflow.
- Focused on migration evidence and reproducible verification instead of relying only on build success.
- Provided clear installation, API, frontend, test, and evaluation commands to support repeatable local development.

DataFixer | Full-Stack Data Quality Workbench
github.com/Jay-Jaiswal/DataSet-Fixer
- Built a React and FastAPI application for analyzing, previewing, cleaning, profiling, and downloading CSV and JSON datasets.
- Separated detection, cleaning, and API handling into reusable modules with documented endpoints, validation, descriptive errors, and health checks.
- Tested the pipeline with a generated 5,600-row dataset containing more than 12,000 injected data-quality issues.
- Implemented configurable cleaning strategies, preview-before-apply behavior, and post-cleaning verification to make transformations reviewable.

QAir Asthma | Mobile Monitoring Application
github.com/Jay-Jaiswal/QAir-Asthma
- Contributed to a React Native and Expo application combining Supabase authentication, inhaler logs, trigger history, location search, maps, and air-quality data.
- Developed a custom asthma risk-prediction model to reduce dependence on external prediction APIs and support destination-aware risk insights.
- Supported location-based environmental review using AQI, particulate matter, temperature, humidity, and trigger-history data.

RESEARCH AND CONFERENCE PRESENTATION

QAir AI Driven Smart Asthma Management System Using IoT and Mobile Health Monitoring
Co-authored a research paper and presented as part of the team at the Sustainx 2026 international conference, CVM, Vidyanagar.

Vishwakarma Awards 2026 | Ongoing Participation
Participating with the QAir team on our AI-driven asthma monitoring and risk-prediction project.