Vidisha Chirag Sodha | Software Engineer | Backend & Full-Stack Systems

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Software Engineer with experience building reliable backend systems, REST APIs, and data-intensive workflows. Strong in API correctness, system reliability, and end-to-end feature ownership from design and prototyping to production deployment and iteration. Experienced working on multi-service systems and collaborating in team-based engineering environments.
Portfolio: https://portfolio-vidisha-sodhas-projects.vercel.app

SKILLS

- **Programming Languages:** Python, Java, JavaScript, TypeScript
- **Backend Technologies:** REST APIs, FastAPI, Flask, Django, Node.js
- **Frontend Technologies:** React, HTML, CSS
- **Databases:** PostgreSQL, MySQL, MongoDB, SQL
- **Systems & Infrastructure:** Linux, Docker, AWS, Git, CI/CD pipelines
- **Core Computer Science:** Data Structures, Algorithms, Scalable Software Design
- **Engineering Focus:** API correctness, backend reliability, performance-aware design, and end-to-end ownership

EDUCATION

Master of Computer Science   Jan 2024 – Dec 2025
Purdue University   Indiana, USA

Bachelor of Engineering in Electronics and Communication   2019 – 2023
G H Patel College of Engineering & Technology   Gujarat, India

WORK EXPERIENCE

Bitmechanix Solutions, Ahmedabad, Gujarat, India
Engineering Intern   Jan 2023 – Apr 2023
- Instrumented runtime and usage metrics to identify performance bottlenecks and feature adoption, contributing to 14.5 hours/week productivity gains and 9.5% cost reduction.
- Built backend workflows and automation tooling supporting production systems.
- Partnered with engineers and cross-functional stakeholders to design and iterate on internal tools, supporting reliable execution and improved operational workflows.
- Supported production workflows by monitoring backend systems, debugging runtime issues, and iterating on services post-deployment.
- Contributed to backend services within multi-service production codebases, making changes safely through testing, debugging, and post-deployment monitoring.

AceSoftex, Rajkot, Gujarat, India
Developer Intern   Jun 2022 – Jul 2022
- Implemented feature updates and production bug fixes across backend services and internal web interfaces using JavaScript, Node.js, and MySQL.
- Debugged REST APIs and production issues, improving system stability and error handling.
- Participated in code reviews and team discussions, following enterprise development workflows and best practices.

PROJECTS

Data Integration, Analytics & Monitoring Platform | Python, SQL, REST APIs, PostgreSQL, Docker
- Designed and implemented scalable backend pipelines to ingest, process, and analyze structured data using Python, SQL, and PostgreSQL
- Built REST APIs supporting multi-stage data workflows with strict correctness and validation guarantees.
- Implemented monitoring logic including rolling averages, deltas, and anomaly signals to track system behavior under varying data volumes.
- Ensured data integrity, reproducibility, and reliability across production-like workloads.

AI Chatbot Platform | Python, Flask, SQLite, Docker, Ollama
- Built backend infrastructure supporting secure session handling and production-safe API workflows.
- Designed provider-agnostic service interfaces enabling safe integration with multiple model backends.
- Containerized services using Docker to ensure reliable, reproducible deployments.
- https://ai-chatbot-flask-5p5h.onrender.com/ui (*UI uses mock LLM*)

Resume Match Analyzer (Web Platform) | React, JavaScript, REST APIs
- Built and owned a user-facing React application with multi-step, API-driven workflows, prioritizing correctness and usability.

ADDITIONAL PROJECTS

ExpenTrack: Built RESTful APIs, data models, and dashboards to analyze financial transaction data.
AI-Powered Partner Data Validator: Implemented schema-based data validation and structured error reporting.
Collaborative Code Editor: Built real-time developer collaboration tooling using WebSockets with session recovery logic.