

Get started · Learning paths

Path: platform engineer

🕒 2 min read · Updated 25 September 2026

From the one rule to a merged pull request: the pages and exercises that take an engineer through the API, the search and verification engines, the data pin and the delivery pipeline, in order.

<https://docs.gurbanisoul.com/learning-paths/platform-engineer/>

You will change `webapp/`, `frontend/`, `tools/` or the wiki. Two days, in this order.

Interactive on the web: a checklist that remembers what you have done.

- ☐ Read the reverence checklist and what Sri Guru Granth Sahib Ji is — the one rule, in your words.
- ☐ Run it locally: make doctor, make dataset, python3 webapp/serve.py, and open /api/health.
- ☐ How the three repositories fit and the dataset pin: where the database comes from and why you never edit it.
- ☐ Architecture overview, then the request lifecycle and bounded contexts and the gateway.
- ☐ Anatomy of a line record — use the Ang explorer on Angs 1, 712 and 1256.
- ☐ The search waterfall, then modes and tiers and the Roman fold.
- ☐ Exercise 01 — trace a search.
- ☐ The verification engine and harnesses and golden vectors.
- ☐ The JSON API, API routes, contract and OpenAPI, versioning and caching.
- ☐ Exercise 02 — add a route and watch the gates.
- ☐ Engineering invariants — read every bullet; they are what a reviewer checks.
- ☐ CI gates, branching and delivery, the deploy runbook.
- ☐ Exercise 03 — bump a pin in a scratch branch.
- ☐ Your first pull request — then open a real one.

When you are done you can explain, without notes, why `/api/search` reports a mode, why the fold lives in three places, why a deploy is verified by commit, and why none of it may touch a single character of the text.