

Individual Study Plan: Python Junior (140 days)

Phase 1: Starting the system (Days 1-20)

- Install Python, setup PyCharm, run via cmd
- Variables, types, print/input
- Conditionals: if/else/elif
- Loops: for, while, range
- Work with .txt files: read and write
- Basics of Git and command line

Phase 2: Structures, functions, modules (Days 21-45)

- Functions, arguments, *args, **kwargs
- Dictionaries, sets, tuples
- Exceptions: try/except
- Import modules, custom library
- Mini project: notes journal

Phase 3: SQL + Python (Days 46-70)

- Install PostgreSQL, PGAdmin4 UI
- SQL: SELECT, INSERT, UPDATE, DELETE
- JOIN, indexes, sorting
- psycopg2: Python to PostgreSQL
- Project: student database

Phase 4: OOP & architecture (Days 71-100)

- Classes, __init__, __str__
- Inheritance, polymorphism
- Encapsulation, decorators
- MVC project: mini CRM
- Final project: Prayer/Wind Counter

Phase 5: Practice & prep (Days 101-140)

- API work (requests, json)

- Flask web framework: server, routes
- Docker: project containerization
- Final project on GitHub
- Resume, code review, interview prep