

hi Dia

Yesss. That's the move. Not random learning — structured growth. I like this version of you 😊🔥

We'll build a **practical backend roadmap** assuming ~1–2 hours per day. No fluff. Only what makes you dangerous inside **Accenture**.

12-Week Backend Developer Roadmap

Phase 1 (Weeks 1–3): Core Java Mastery

 **Goal: Think like a backend engineer**

Week 1:

- OOP principles (deep understanding, not definition level)
- SOLID principles
- Access modifiers
- Abstraction vs Interface (real use cases)

Week 2:

- Collections (List, Set, Map, HashMap internals)
- equals() & hashCode()
- Comparable vs Comparator
- Generics

Week 3:

- Exception handling best practices
- Multithreading basics (Thread, Runnable, Executor)
- Synchronization
- Java Memory basics (high level)

 **Build small console projects:**

- Bank system
- Inventory manager
- Multithreaded counter

Phase 2 (Weeks 4–7): Spring Boot Deep Dive

We now move to real enterprise backend using
Spring Boot

Week 4:

- What is Spring & Dependency Injection
- Create REST APIs
- @RestController
- @Service
- @Repository
- Postman testing

Build: Simple CRUD app.

Week 5:

- Connect to MySQL
- JPA & Hibernate
- Entity relationships (OneToMany, ManyToOne)
- DTO pattern

Build: Student management system.

Week 6:

- Exception handling (global)
- Validation
- Logging
- API response standardization

Make it production-like.

Week 7:

- JWT Authentication

- Basic role-based access
- Password hashing
- API security basics

Now you're entering serious backend territory.

Phase 3 (Weeks 8–9): SQL Mastery

Week 8:

- Advanced joins
- Subqueries
- Indexing
- Query optimization

Practice on:

- LeetCode SQL
 - HackerRank SQL
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Week 9:

- Transactions
- ACID
- Isolation levels
- Stored procedures
- Database design (normalization)

Backend dev without SQL depth = incomplete.

Phase 4 (Weeks 10–11): Git + Project Discipline

Week 10:

- Branching strategy
- Pull requests
- Merge conflicts
- Rebase vs merge

Simulate team workflow.

Week 11:

- Project structure best practices
 - Logging frameworks
 - Clean code principles
 - Basic system design (monolith vs microservices idea level)
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Phase 5 (Week 12): Deployment Awareness

You don't need mastery. Just awareness.

- What is Docker
- What is CI/CD
- What is AWS EC2
- How deployment works

Understand how your backend reaches users.

Bonus: Corporate Skill (Do this weekly)

- Practice explaining your project in 3 minutes
- Record yourself explaining OOP
- Learn to give structured updates

Technical skill + communication = growth.

Now let me ask something important.

Are you planning to start this immediately?

And realistically, how many hours per day can you give?

Because I can optimize this roadmap for:

- 1 hour/day mode
- 2 hour/day aggressive mode
- Weekend heavy mode

Tell me your realistic commitment. No overconfidence. 🤔


Now that's what I like to hear 😊🔥

2 hours daily is PERFECT. Not burnout. Not lazy. Sustainable domination.

Okay, we'll structure this properly. No random YouTube hopping. Clear daily breakdown.

This is your **2-Hour Backend Growth System (12 Weeks)** before joining **Accenture**.
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Daily Structure (2 Hours)

 **First 60 mins → Concept Learning**

 **Next 60 mins → Implementation / Coding Practice**

No passive learning allowed.

Weeks 1–3: Core Java Power

Daily Split Example:

Hour 1

- OOP / SOLID / Collections / Threads (depending on week)

Hour 2

- Build small console apps
- Rewrite examples without looking
- Solve 1–2 Java logic problems

⚠ Rule: If you cannot explain it in simple language, you don't know it yet.

Weeks 4–7: Spring Boot Builder Mode

Working with

Spring Boot
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Hour 1

- Learn Spring concepts (DI, REST, JPA, Security)

Hour 2

- Build project step-by-step

By end of Week 7 you should have:

- One proper CRUD backend project
- One secured JWT-based API
- Clean folder structure

This becomes your confidence booster.



Weeks 8–9: SQL Domination

Hour 1

- Advanced queries
- Transactions
- Indexing

Hour 2

- Practice queries on real datasets
- Try optimizing slow queries

Backend dev who knows SQL well = respected.



Weeks 10–11: Git + Clean Code

Hour 1

- Git workflows
- Branching
- Rebase vs Merge
- Pull requests

Hour 2

- Refactor your Spring project
- Improve logging
- Add proper exception handling

Turn your project from “college level” to “enterprise level”.

Learn:

- What is Docker
- CI/CD basics
- How backend is deployed
- Basic AWS idea

No deep dive. Just conceptual clarity.



Important Mindset Rule

You are not studying to pass exams anymore.

You are studying to:

- Be reliable in meetings
- Understand tickets quickly
- Fix bugs without panic
- Speak confidently in standups

That's real growth.

Now one honest question:

Are you disciplined enough to do 2 hours daily even when motivation drops?

Because consistency will make you dangerous here.

If you say yes, I'll make you a Week 1 micro-plan starting tomorrow 🙄🔥

That's the energy 😊🔥

Alright. No more theory talk. We start executing.

This is your **Week 1 Micro Plan (Backend Domination Begins)**.

Focus: **Core OOP + Clean Coding Foundation**

◆ Day 1 – OOP Deep Understanding

Hour 1 (Concept)

- What is OOP really?
- Encapsulation (real-world examples)
- Abstraction
- Interface vs Abstract class (WHEN to use each)

Hour 2 (Code)

Build:

- A simple `BankAccount` class
- Add deposit, withdraw methods
- Hide internal balance properly

Goal: Write clean, modular code.

◆ Day 2 – Inheritance & Polymorphism

Hour 1

- Method overloading vs overriding
- Runtime vs compile-time polymorphism
- `super` keyword

Hour 2

Build:

- A `Shape` base class
- Circle, Rectangle subclasses
- Override `area()` method

Understand dynamic binding properly.

◆ Day 3 – SOLID Principles (Very Important)

Hour 1

- Single Responsibility

- Open/Closed
- Liskov Substitution

Don't memorize. Understand WHY they exist.

Hour 2

Refactor your previous code using SOLID principles.

Enterprise coding = maintainable coding.

◆ Day 4 – Collections Deep Dive

Hour 1

- List vs Set vs Map
- HashMap internal working (important)
- equals() & hashCode()

Hour 2

Build:

- Student record system using HashMap
- Practice sorting using Comparator

Backend engineers must understand data structures deeply.

◆ Day 5 – Exception Handling

Hour 1

- Checked vs unchecked
- Custom exceptions
- Best practices

Hour 2

Add:

- Proper exception handling to Bank system
- Create custom InsufficientBalanceException

Clean error handling = professional code.

◆ Day 6 – Multithreading Basics

Hour 1

- Thread vs Runnable
- ExecutorService
- Synchronization

Hour 2

Build:

- A simple multithreaded counter
- Try to see race condition
- Fix it using synchronized

This will separate you from average freshers.

◆ Day 7 – Revision + Explanation Day

This is critical.

Hour 1

Revise everything.

Hour 2

Explain OOP, SOLID, Collections aloud like you're in an interview.

If you can explain clearly, you're growing.

Rule for This Week

No skipping.

No passive watching.

No "I'll do tomorrow."

2 hours daily. Even if tired.

Next week we move into serious territory toward

Spring Boot
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You're not preparing to survive Accenture.

You're preparing to walk in confident.

Tomorrow is Day 1.

Message me after finishing Day 1. I'll test you a little 😊