

WINTER ARC – Backend Development Roadmap (30 Days)

Challenge Overview

The Backend Development track focuses on building strong server-side foundations. Participants will learn how APIs, databases, authentication, and deployment work together to power real-world applications.

30-Day Learning Roadmap

- Days 1–4: Backend fundamentals, HTTP, servers, and routing
- Days 5–9: Request handling, middleware, REST API design, and API testing
- Days 10–14: Database concepts, CRUD operations, and data validation
- Days 15–18: Authentication, authorization, error handling, and environment configs
- Days 19–22: API security, file uploads, pagination, caching basics
- Days 23–24: API documentation and unit testing
- Days 25–29: Backend mini project planning, development, optimization, and deployment
- Day 30: Monitoring, showcase, and reflection

Posting & Submission Rules (IMPORTANT)

- For all TECH challenges (Backend included), daily task completion MUST be posted on LinkedIn or X (Twitter).
- Tag the official Winter Arc / Matrix handle and use the official hashtags.
- GitHub repository links, API screenshots, Postman collections, or learning summaries are acceptable.
- Submissions without social proof will not be eligible for XP.

What to Post Daily

- API endpoints or features worked on
- Database schema or logic implemented
- Errors faced and how you solved them
- One backend concept learned today

Strategies to Win the Backend Track

- Focus on understanding request–response lifecycle deeply.
- Keep APIs clean, documented, and secure.
- Write readable and modular backend code.
- Test APIs regularly using Postman or similar tools.
- Optimize queries and responses during later stages.

Fair Play & Discipline

- All backend submissions must be original.
- Copy-pasting APIs or projects without understanding is prohibited.
- AI usage must be disclosed clearly.
- Matrix reserves the right to revoke XP, ranks, or rewards.