

Advanced TypeScript & API Architecture

Level up from JavaScript to production-grade TypeScript and learn to design scalable, well-documented APIs.

Level: Advanced Duration: 8 weeks, 5-7 hrs/week Language: English

Curriculum

1. TypeScript Deep Dive	
• Why TypeScript for Production Apps	12 min
• Generics in Practice	30 min
• Utility Types and Type Inference	28 min
• Discriminated Unions & Type Narrowing	24 min
2. Refactoring a Real Codebase	
• Auditing an Untyped Project	18 min
• Incremental Migration Strategy	22 min
• Typing Third-Party Libraries	20 min
3. REST API Design	
• Resource Modeling and Naming Conventions	20 min
• Versioning and Backward Compatibility	18 min
• Pagination, Filtering, and Sorting	22 min
4. GraphQL from Scratch	
• Schema Design Fundamentals	26 min
• Resolvers and Data Loaders	30 min
• Handling N+1 Query Problems	22 min
5. Auth & Access Control	
• Role-Based Access Control Patterns	24 min
• Securing Multi-Tenant Data	26 min
6. Performance & Scale	
• Caching Strategies	20 min
• Rate Limiting and Throttling	16 min
• Load Testing Your API	22 min

Pricing

Self-Paced One-time payment, lifetime access	Rs 51,999 (was Rs 95,000)
Live Sessions One-time payment, includes live cohort access	Rs 107,999 (was Rs 194,000)
1-on-1 Per engagement, scheduled with your mentor	Rs 323,999 (was Rs 583,000)