

{ CLOUD NATIVE ARTISANS }

backend roadmap 2022 .. خريطة طريق تعلم البرمجة



Backend Roadmap

Reading List

Phase 1	Your First Programming Language - Beginner level [syntax, statements] - working with files & directories	Code tools - Git & gitflow - Unit Test - Build for different operating systems	- Basics	- Computer Hardware Architecture - How Memory works - How CPU works - Operating system Architecture - How Operating system manage processes
Phase 2	Object Oriented - Encapsulation - Inheritance - Abstraction - Polymorphism	Data Structure 01 - Arrays - Linked Lists - Stacks - Queues	Data Structure 02 - Hash Tables - Trees - Heaps - Graphs	- SOLID - KISS - DRY

Phase 3	Problem Solving - Algorithms design - Algorithms analysis - Known Algorithms - Creational - Structural	- Critical Thinking
Phase 4	Network - Network basics - HTTP RESTful - HTTP blocking I/O [advanced] - TCP [basics] - Nginx web server & API gateway	- OSI - Network socket

Phase 5	DataBase - Normalization - MySQL - MongoDB - RabbitMQ Design Patterns 02 - Behavioral	- Microservices	- Graph Database - Time Series Database - Reactive Programming
Phase	Containers Cloud - Docker - AWS Basics	Security - Secure Code - Secure APIs	- Virtualization - chroot - CGroups

CONTACT AND FOLLOW US

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