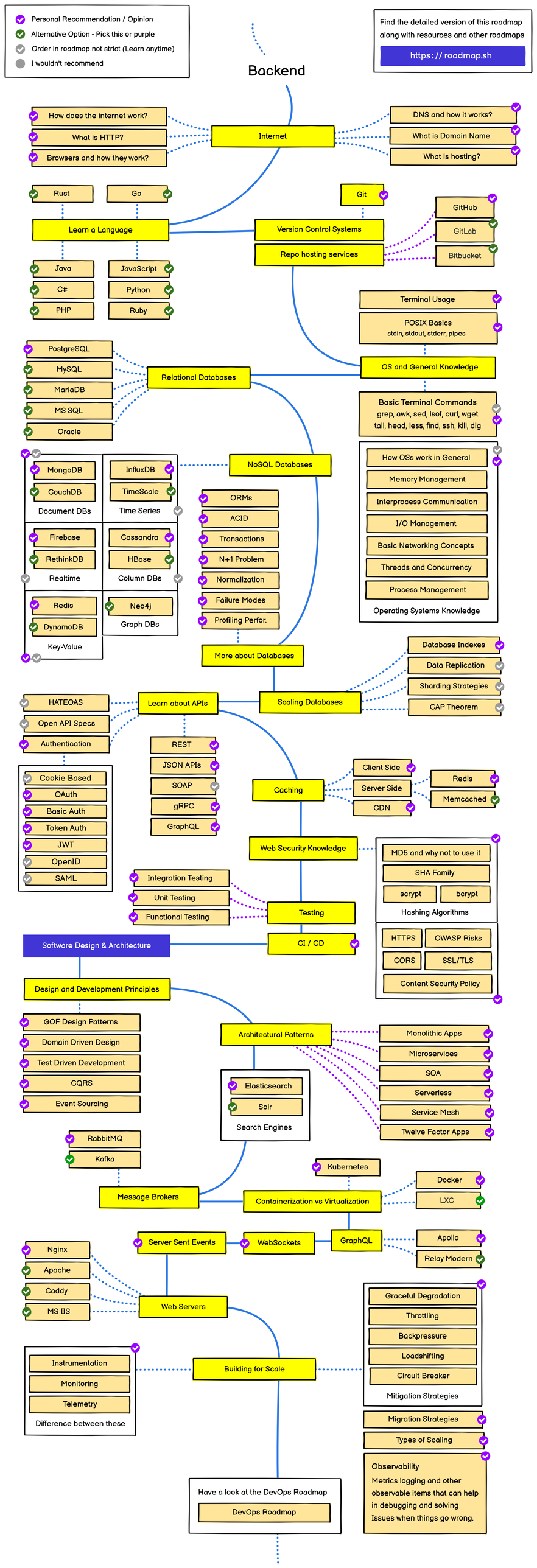
Personal Recommendation / Opinion
Alternative Option - Pick this or purple
Order in roadmap not strict (Learn anytime)
I wouldn't recommend
Find the detailed version of this roadmap along with resources and other roadmaps
https://roadmap.sh
Backend
Internet
How does the internet work?
What is HTTP?
Browsers and how they work?
DNS and how it works?
What is Domain Name
What is hosting?
Learn a Language
Rust
Go
Java
JavaScript
C#
Python
PHP
Ruby
Version Control Systems
Git
Repo hosting services
GitHub
GitLab
Bitbucket
Terminal Usage
POSIX Basics
stdin, stdout, stderr, pipes
OS and General Knowledge
Basic Terminal Commands
grep, awk, sed, lsof, curl, wget
tail, head, less, find, ssh, kill, dig
How OSs work in General
Memory Management
Interprocess Communication
I/O Management
Basic Networking Concepts
Threads and Concurrency
Process Management
Operating Systems Knowledge
Relational Databases
PostgreSQL
MySQL
MariaDB
MS SQL
Oracle
NoSQL Databases
MongoDB
CouchDB
Document DBs
InfluxDB
TimeScale
Time Series
Firebase
RethinkDB
Realtime
Cassandra
HBase
Column DBs
Redis
DynamoDB
Key-Value
Neo4j
Graph DBs
ORMs
ACID
Transactions
N+1 Problem
Normalization
Failure Modes
Profiling Perfor.
More about Databases
Scaling Databases
Database Indexes
Data Replication
Sharding Strategies
CAP Theorem
Learn about APIs
HATEOAS
Open API Specs
Authentication
Cookie Based
OAuth
Basic Auth
Token Auth
JWT
OpenID
SAML
REST
JSON APIs
SOAP
gRPC
GraphQL
Caching
Client Side
Server Side
CDN
Redis
Memcached
Web Security Knowledge
MD5 and why not to use it
SHA Family
scrypt
bcrypt
Hashing Algorithms
HTTPS
OWASP Risks
CORS
SSL/TLS
Content Security Policy
Integration Testing
Unit Testing
Functional Testing
Testing
CI / CD
Software Design & Architecture
Design and Development Principles
GOF Design Patterns
Domain Driven Design
Test Driven Development
CQRS
Event Sourcing
Architectural Patterns
Monolithic Apps
Microservices
SOA
Serverless
Service Mesh
Twelve Factor Apps
Elasticsearch
Solr
Search Engines
RabbitMQ
Kafka
Message Brokers
Kubernetes
Containerization vs Virtualization
Docker
LXC
Server Sent Events
WebSockets
GraphQL
Apollo
Relay Modern
Nginx
Apache
Caddy
MS IIS
Web Servers
Graceful Degradation
Throttling
Backpressure
Loadshifting
Circuit Breaker
Mitigation Strategies
Instrumentation
Monitoring
Telemetry
Difference between these
Building for Scale
Migration Strategies
Types of Scaling
Observability
Metrics logging and other observable items that can help in debugging and solving Issues when things go wrong.
Have a look at the DevOps Roadmap
DevOps Roadmap