



# 2024 Backend Roadmap

By Web Dev Simplified <https://courses.webdevsimplified.com>

Each section, and all the items listed in each section, of this roadmap are listed in the order that you should learn them.

Each section also includes projects that you can complete in any order that require only the skills learned in that section and the sections prior.

## Backend Language - (Choose Any)

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**JavaScript** (Recommended If Also Learning Frontend)

**Python** (Recommended If Also Learning AI)

**PHP** (Recommended If Also Learning Wordpress)

**C#**

**Rust** (Difficult To Learn)

**Ruby** (Easier To Learn But Not Used As Much)

## Backend Framework - (Choose Any)

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### JavaScript

**Node.js With Express** (Recommended)

**Deno** (Newer So Not As Popular)

### PHP

**Laravel** (Recommended)

**Wordpress** (Also Recommended)

**CodeIgniter**

### Python

**Django** (Recommended)

**Flask**

### C#

**.NET** (Recommended)

### Rust

**Rocket** (Recommended)

### Ruby

**Rails** (Recommended)

# Node.js/Express - [JavaScript Course](#) [Node.js Course](#)

Var vs Let vs Const - [Video](#) [Article](#)

Function Basics - [Video](#)

Callbacks - [Video](#) [Article](#)

Arrow Functions - [Video](#) [Article](#)

Hoisting - [Video](#) [Article](#)

Scoping - [Article](#)

Closures - [Video](#)

Strict Equality - [Video](#) [Article](#)

Objects/Arrays - [Array](#) [Video](#)

Reference Vs Value - [Video](#) [Article](#)

Control Flow (If, Loops, etc.)

Promises - [Video](#) [Article](#)

Async Await - [Video](#) [Article](#)

Callbacks - [Article](#) [Related Video](#)

Promises - [Video](#)

Async Await - [Video](#)

Common Modules - [Article](#)

Null Vs Undefined - [Video](#) [Article](#)

Recursion - [Video](#) [Article](#)

Array Methods - [Video](#) [Advanced Video](#)

Template Literals - [Video](#) [Advanced Video](#) [Article](#)

Destructuring/Spread Operator - [Video](#) [Article](#)

Node.js File System Library

Express Middleware - [Video](#) [Article](#)

Express Routing - [Video](#)

Templating Language (EJS, Handlebars, Pug, etc.)

## Projects (May Require A Database)

### Easy

Basic Node.js Server - [Video](#)

Basic REST API - [Video](#)

URL Shortener - [Video](#)

Hastebin Clone - [Video](#)

Paginated API - [Video](#)

Discord Bot - [Video](#)

Basic Chrome Extension - [Video](#)

### Medium

Amazon Web Scraper - [Video](#)

JSON Web Token Auth - [Video](#)

User Permission Role - [Video](#)

Passport Auth - [Video](#)

Custom Auth - [Video](#)

Stripe Payments - [Video](#) [Article](#)

PayPal Payments - [Video](#)

Google Docs Clone - [Video](#)

Password Protected File Sharing - [Video](#)

### Hard

Markdown Blog - [Video](#)

Reddit Clone - [Video](#)

Realtime Chat App - [Video 1](#) [Video 2](#)

# Databases - [SQL vs NoSQL Video](#)

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## SQL

PostgreSQL (Recommended)

MySQL (Also Recommended) - [Install Video](#) [Tutorial Video](#)

SQLite

## NoSQL

MongoDB (Recommended) - [Tutorial Video](#) [Cheat Sheet](#)

Redis (Recommended For Caching)

Cassandra

DynamoDB (Recommended If Working With AWS)

# TypeScript - [Course](#)

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TSConfig

Type Inference

Array Type

Any/Unknown Type - [Video](#)

Type vs Interfaces - [Video](#)

Functions

Unions/Intersections

readonly/keyof/typeof

As Const/Enums

Tuples

Generics - [Video](#)

Built In Types (Pick, Omit, etc.)

Type Guards

Satisfies

Discriminated Union - [Video](#)

Function Overloads

Type Predicate - [Video](#)

Declaration Files

## Projects

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### Easy

Image Slider - [Video](#)

Todo List - [Video](#)

Typing Effect Animation - [Video](#)

Hangman Clone - [Video](#)

### Medium

Custom Select Component - [Video](#)

Advanced Note Taking App - [Video](#)

Multistep Form - [Video](#)

Shopping Cart - [Video](#)

### Hard

Facebook Messenger Clone - [Video](#)

YouTube Home Page Clone - [Video](#)

Twitter Clone - [Video](#)