# TOP UNIVERSE BACKEND CURRICULUM

### WEEK 1

Introduction to Backend Development

Introduction to Javascript

- a. Javascript Basics (Variables, Scopes etc)
- b. Data Types (String, Number, Boolean, Undefined, Null, Symbol, BigInt, Array, Object)
- c. Primitive and Reference types
- d. Control Flow Statements
- e. Conditional Statements
- f. Functions and Types
- g. Object Oriented Javascript
- h. Javascript Promises

#### WEEK 2

Application Prototyping with Javascript

#### WEEK 3

Installing & exploring Nodejs
File systems and command line args

#### WEEK 4

Introduction to packages (npm)
Introduction to web servers
Debugging in NodeJS

# WEEK 5, WEEK 6, WEEK 7

Introduction to Rest API's

Working with Postman (GET, PUT, PATCH, DELETE, POST) HTTP Verbs

## **WEEK 8**

Introduction to Database Systems (MongoDB)

## WEEK 9

Crud Operations using mongoose (mongoose)

### **WEEK 10**

Asynchronous Nodejs
API Authentication and Security

## **WEEK 11**

Sorting, Pagination and Filtering

## **WEEK 12**

File Upload Sending Email & SMS Automated Testing

#### **WEEK 13**

Introduction to cloud deployment Part 1 (Heroku PaaS) Introduction to Cloud Deployment Part 2 (DigitalOcean)