

ITLEO

Node.js Course – Building a Back-end in JavaScript

Online

Intermediate / Advanced

28 lessons, 2 lessons per week

We study the following technologies:



Jenkins



Selenium



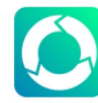
Rest



Git



Python



Continuous Integration

More about the course:

This course is designed for those who are already familiar with JavaScript and want to move to the server-side development. Node.js allows you to create high-performance, scalable web applications using the same language as the front-end. It is a key technology for building APIs, microservices, and the back-end of modern websites.

Course Program

Block 1: Introduction to Node.js

- What is Node.js: events, single-threaded model
- Working with npm, modules, project structure
- Working with files, paths, buffers, events
- Deploying a local server with http/https
- Test work on the topic

Block 2: Express.js and REST API

- Express.js Basics: Routes, Middleware
- Routing, Request and Response Processing
- RESTful API Development: GET, POST, PUT, DELETE

- Working with Postman for API Testing
- Creating Controllers, Services
- Error Handling and Logging
- Review Work and Mini-Project

Block 3: Working with databases

- PostgreSQL and MongoDB Connection
- ORM/ODM: Sequelize, Mongoose
- CRUD operations with the database
- Data validation
- Entity relationships, aggregation
- Task: creating a full-fledged API from the database

Block 4: Asynchrony and Security

- Asynchronous programming: callback, Promise, async/await
- Working with tokens, JWT authentication
- Password encryption (bcrypt)
- Protection against common attacks: XSS, CSRF, SQL Injection
- User authorization
- Role model of access

Block 5: Project and DevOps

- Team development via Git and GitHub
- GitHub Actions integration (basic)
- Deploy on Render, Railway or Heroku
- Final project: Back-end for an online store/blog
- Code review by a teacher

Who is this course suitable for?

- JavaScript developers who want to expand their skills
- Front-end developers who want to become full-stack specialists
- Students and beginners in Back-end who want a sought-after specialty

What will be the outcome?

- Real project with all back-end components
- Full understanding of Node.js application architecture
- CV portfolio
- Interview preparation

Career prospects

After the course, you will be able to apply for the following positions:

- Junior Back-end Developer (Node.js)
- Junior Full-stack Developer

Average salary in Ukraine: \$1200 – \$2200

Node.js is one of the most popular technologies in startups, product companies, and outsourcing.

Course bonuses

- English for IT Professionals
- Technical Interview Mock Test
- HR Consulting: Resume and Interview
- Access to Alumni Community

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