

OCTOBER, 11

17:30 (CET)

ZOOM

ENHANCING NODE.JS ARCHITECTURE: EXPLORING NESTJS



GORGAN DANIEL-MIHAI SENIOR JAVASCRIPT DEVELOPER AT CIKLUM

Meet Ciklum



We empower companies to meet their digital initiatives by providing end-to-end software, integration and innovation services

Our services:

Digital	Intelligent	ITO & Managed	2002	4000+ professionals
Commerce	Automation	Service	founded	
Data &	Cloud	Engineering	20+	300+
Analytics		Services	offices	clients

Leading companies choose us:

















Speaker:



Daniel Gorgan

Senior JavaScript Developer at Ciklum

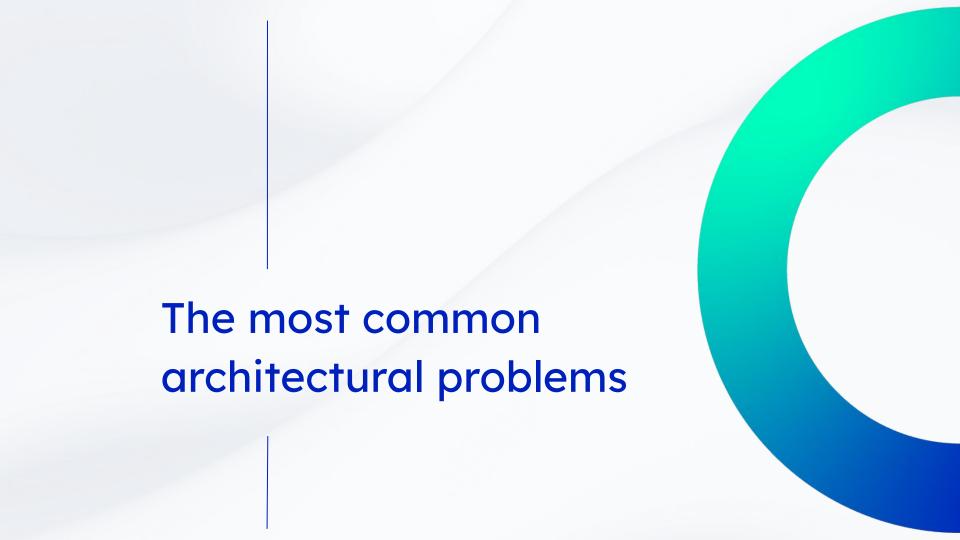
- Tech enthusiast specializing in Node.js, SQL/NoSQL and Cloud technologies with 5+ years of experience
- Hands-on experience in projects across outsourcing and product companies contributing to the development of in-house products, smart chatbots and voicebots by leveraging different AI technologies





Agenda

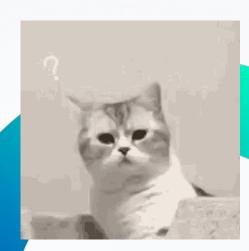
Code architectural challenges NestJS Demo Conclusions





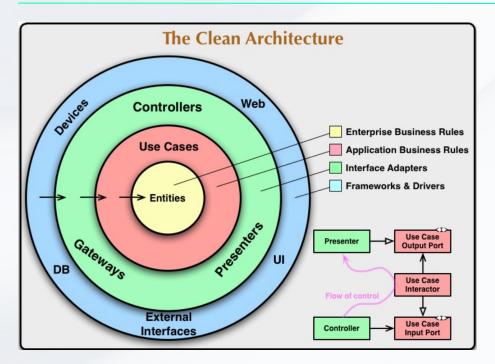
Found architectural problems

- No separation of concerns
- Hard to maintain the code
- Hard to test the code
- Adding external dependencies interfere with the business logic code
- No standards and consistency to follow





Clean Architecture









More about

Released in 2016

A Node.js framework for building efficient, scalable and maintainable server-side applications

It combines elements of:

- OOP (Object Oriented Programming)
- FP (Functional Programming)
- FRP (Functional Reactive Programming).





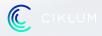
Nestjs is not Nextjs



API development

vs **\EXT**.Js

Server Side Rendering



Nestjs is not Express.js



Opinionated

express

Unopinionated







https://npmtrends.com/@hapi/hapi-vs-@nestjs/cc re-vs-express-vs-fastify-vs-koa-vs-sails



Key features

Modular architecture inspired by Angular ANGULAR



- **Decorators**
- Dependency injection
- Typescript integration
 - JS support as well **TS**







Key features

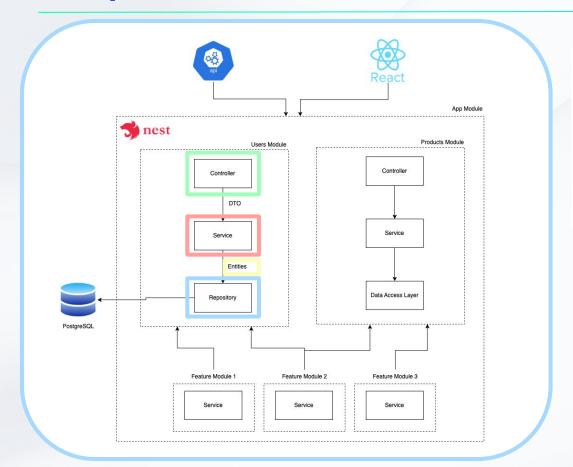
Extensive ecosystem and built-in modules

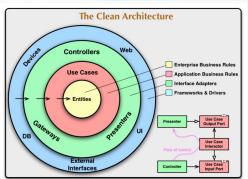
- Nest CLI (optional: monorepos)
- REST, gRPC, GraphQL
- MVC
- WebSockets
- Microservices
- RabbitMQ / Kafka
- Authentication and authorization
- Different databases support (sequelize, TypeORM, mongo)
- Testing utilities and best practices



Simplified (initial) Nest architecture

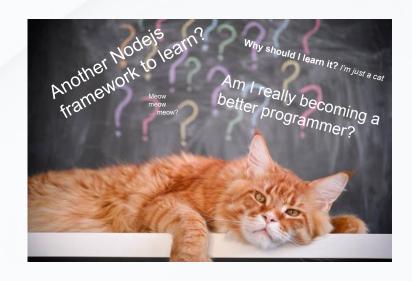








Is it worth Learning Nestjs?





What industry thinks about it

- 3-5 years of relevant work experience with at least 2 years of proven experience in BackEnd Development of Web and Mobile applications with NodeJS and Nest
 - NodeJS microservices with Typescript and NestJS
- Back-end Node.js, NestJS, Python
 - Knowledge of Node.js and frameworks available for it (Nest.js)
- Demonstrated experience with back-end development using NestJS.



Any questions?

Share your feedback!





Thank you!



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