

Lappeenrannan teknillinen yliopisto  
School of Business and Management

Software Development Skills

**Matias Tarvainen 000431653**

**LEARNING DIARY**

## NodeJS MODULE

7.1.2025 – 9.1.25

I have (re)learned how to use the postman with GET and POST methods. I have also learned the basics of creating a web server with Node js.

Node js is not the best possible option when used alone but as I go further along with the lectures, I will bring back to memory the mongo DB, express, and react which will greatly ease my work.

So far I have just written everything that the video has shown me, but I have tried the things that he has mentioned and some things that have come up for me.

In the end, I remembered using some of these in my other course for full stack coding, but a lot had already been lost in a year.

Some of the things that were taught on this lecture were completely new to me as our previous course only went through the most common ones and went with the best methods, but this course gave me options to use, but I still prefer the tools used in my previous express and node courses.

this video tutorial went through the basic tools of Node js and I think they will probably be useful in some situation in a point of time.

Cant wait for the next lecture which is about mongoDB.

## MongoDB MODULE

10.1.2025

I didn't feel like going through the commandline mongo db tutorial so I just brought back into mind the basics of express and creating a mongo server

Instead of using the cloud version I hosted the server on my computer, which is something that i was already used to.

I had some help with setting this up by github copilot.

I got a little carried away with testing out the mongo and created a simple html that fetches and sends data to the mongoDB server.

Overall, I started to remember how to use express and paths and node js and mongo together.

In no way did this become the most cleanest version I could do but it was created quite fast.

I remember doing these things a little differently

during the other full stack courses. I hope I get a little clearer picture from the express lecture.

## ExpressJS MODULE

10.1.2025 – 11.1.2025

Learned more about express, which was familiar to me already from the advanced web applications course. Learned how to use and what is a static express load.

Created a couple of middlewares to ease the use of reoccurring code.

created error handling middleware.

This lecture has been more of what I remember the full stack course being. The ES6 usage and separate files for routes and such.

I also learned about controllers and the folder and file structure of an express application. I also brought back a lot of js in to my mind and the work flow of these applications.

cant wait to add react on top of this.

## React MODULE

11.1.2025 – 12.1.2025

This was definately the hardest of the courses so far. so much more was given during the lectures and these subjects were harder to wrap my head around after playing with the functions a little myself, I think I have it down better than before the course.

I remember doing these in the other full stack course with the front end and back end servers being different which is something that was re introduced to me during this course which was nice. I really think that this could have benefitted from having mongoose in it as I dont think that Static data is something that is commonly used written on a file somewhere in the structure but I might be wrong.

I also like playing with the databases and gives the whole thing a little more sense atleast thats what I think as you only need to update the database.

## MERN-Stack MODULE (project)

15.1.2025 – 16.1.2025

That package of 4 videos was quite something. The backend is quite easy and I could do it without breaking my brain. redux on the other hand was something I've never even heard of and the syntax of it was quite hard. At least for someone seeing it for the first time. I don't think I've used axios either but that was fun.

I think I understand some of the redux now that I did some implementations of my own but still needed some help from AI tools on the Component which now looks quite funky but works :D.

Definitely learned a lot during these two weeks that I did this course in. Quite long days those were. There is something in learning by watching videos and copying code from the video that gets quite repetitive at some point. I also was quite tired at some points where I was still watching the videos and doing this course at 8pm.

I now understand better the structure of full stack applications and this is valuable experience for getting work at some point.

That proxy came back to haunt me. I remember on the advanced webapplications course that the proxy didn't work and sure enough it didn't work this time either.

I just put the whole address into the API variable (which is not recommended for security reasons but this is a localhost environment so what's the worst that could happen right)

17.1.2025

"Fine I'll do it myself". After not letting AI do the work, the elden ring component turned out great. I now also understand the services, slices and components better. I had some trouble with redux in the beginning and in no way am a master of it but a whole lot better than I was in the beginning just copying code.

Something I forgot to mention in the previous days was how I relearned the JWT tokens and bcrypting. I am still kinda lost on the token part, because I think we did it differently in our course and the "token" variable just jumps around in all of the files which I think is the point of it but gets confusing especially as I think the videos didn't quite teach enough on that subject.

Overall I feel like I learned a lot from this course. For more on what I did each day check the repository commit history, which has more detailed information on what was done each day. Sorry for combining the days in this diary, I am in quite a rush to get my bachelors degree and didn't have time to check if there was a "how to write learning diaries" page.