Lappeenrannan teknillinen yliopisto

School of Business and Management

Software Development Skills

Eduardo Major Cebola, 003269288

**LEARNING DIARY**

**NodeJS MODULE**

30.4.2025  
Today I started the Full Stack course. I already had Git installed and VS code too so I started with the first module, NodeJS. I had some basis of it but now I’m going deeper into actually understanding it. Today I stopped at Building a Simple API according to the video material and that’s what I’m going to focus. So far so good in understanding everything.

3.5.2025

Today I went through Middleware, Cleanup (Middleware and Handlers) and GET Req Body for POST. Took me some time to understand and going back in the video material quite a few times, but at the end I understood. I stopped at GET Req Body for POST, so Monday I’m starting on File System Module onwards.

5.5.2025

Finished the NodeJS Module. From File System part until the end was quite easy, just understanding some of the modules Node has to offer. Reviewed and arrange the repository for better understanding for someone who sees it and for me when I want to access some module to study. Next is the MongoDB module.

**MongoDB MODULE**

6.5.2025

Today I started (and ended) the MongoDB Module. It was pretty intuitive and easy to follow. I know now how to create a database, CRUD operations and how to integrate Mongo in my Node application and I realized how powerful Mongo can be. Excited to really implement Mongo database on my project. Next is ExpressJS Module.

**ExpressJS MODULE**

7.5.2025

Started ExpressJS module. A lot of things were a lot easier to do. Like CRUD operations and not to do everything “from scratch”. I set up the server with the API calls and a separate routes folder. I will continue this module as I am in the middle of it.

12.5.2025

Today I ended the CRUD operations in my API, created a middleware folder for logger middleware for every time an operation is requested and a custom error handler.

17.5.2025

I was away for a few days but now I ended the Express crash course. I came back where I was and rewatched a bit of the previous stuff that I learned. Then, I went through colors package, using controllers, \_\_dirname workaround, making requests from the Front-End, submit form to API and EJS template setup. I got a solid base about Express and I think I will understand it all better when it comes to the project itself.

**ReactJS MODULE**

11.6.2025

Today I finished the React Module. I started it on 17.5 and it longer than expected because of my wedding and preparations. Nevertheless, I understood everything because I already had contact with React, and completed the Task Maker project within the React crash material. Next is the MERN stack project.

**MERN-Stack Project**

12.6.2025

Started the course project. Goals Setter Application. I already set up the API routes and the REST API for Goals. Tomorrow will do the Users.

13.6.2025

Finished the project backend. Added the users in the database, created authentication with JWTokens and hashed passwords with bcryptJS. Next thing up is the frontend.