



Mads Nicolaj Nielsen

Computer Scientist

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Languages: English, Danish

Technologies I have worked with:

Angular, Assembly, C, CSS/HTML, Git, Haskell, Java, Javascript, MongoDB, NodeJS, Python, React - SCRUM, SOLID

Work Experience

Backend Developer at Micar

Part time

Development of different features.

2022 August -
Current

- Development in Angular, NodeJS, and MongoDB
- Development of API endpoints.
- Frontend development
Creation, and visualization and styling of new costumer segments.
- Testing the newly developed code
- Deployment

Technical Skills

Java

My first programming language was Java. It is my very foundation and understanding of programming.

I solved several projects in Java, among others the famous "The traveling salesmen problem". The problem was about calculating the most efficient route, between a fixed size of cities, for the traveling salesmen to visit.

Another project worth mentioning is Concurrent Programming project. It was in that course I truly understood Java. The project was about finding occurrences of a specific char, spacing, words, etc. The primary objective was to solve the problem as fast as possible through optimization of concurrency. Handling each thread, and optimizing the speed.

C

I have worked with C in the course "Artificial Intelligence" and Systempramming and computer architecture".

The main assignment in AI was to develop an AI, that have somewhat of a brain. We were also assigned to make the AI interactive, so you could interact with the AI.

I chose to develop a chess AI. I solved the problem by adding all the possible moves in a variable, and by some more technical code, sorting by the preferred "best moves".

It was a decent AI, but most people with some knowledge of tactics would win against it, and it wasn't very fast.

Result, and average player with a chess rating of 800 would win against it.

Python

Python was introduced in Linear Algebra, where it was primarily used to solve mathematical problems.

I used python in most projects revolving around mathematical problem through out the education.

Which is why I choose to use it in my bachelor project, which mainly was about calculating.

Education **Computer Science, Syddansk Universitet**

Bachelor: 2018-2021

Master: 2021-2022(Not Finished)

Other Work Experience

Salgsbureauet Aps – Phoner

2012-2014

Alm. Brand – Booking Meetings

2014-2015

Temp Team – Tempt

2015-2016

Danblumen A/S – Warehouse Employee

2016-2018

Coop Warehouse Employee

Full Time

2022 sep. 2023 jan.