

ION CHETRARU

Software Engineer

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Summary

I am a passionate Software Engineering student, eager to innovate and code the future of technology. Can work well under pressure and make the best of any situation. I am an individual with great interpersonal and communication skills.

Education

Technical University of Denmark

Master's Degree in Computer Science and Engineering - Software Engineering
September 2023 – June 2025

Relevant courses: Data Security, Program Analysis, Concurrent Programming, Parallel Computer Systems, UX Design and Prototyping, Software Development of Web Services

Technical University of Denmark [🔗](#)

Bachelor's Degree in General Engineering - Cyber Systems
September 2020 – June 2023

Relevant courses: Programming C++, Functional Programming, Introduction to Cyber Systems, Agile Object-Oriented Programming, Algorithms and Data Structures I, Algorithms and Data Structures II, Computer Science Modelling, Operating Systems, Database systems

Final project: Development of a device for the digitalization of paper-based diagnostic markers:

- Implemented a circuit based on an ESP32 microcontroller, RGB sensors, LEDs, buzzer, display & touchscreen
- Developed hardware software for the hardware toolchain using Agile principles
- Implemented an HTTP server API in microPython for the ESP32 microcontroller
- Developed a web client using HTML, CSS, and JavaScript
- Developed a desktop client using Node.js and Electron

Projects

Recipes-project: web application where you can search, create and save recipes in one place [🔗](#)

- Bootstrapped with **Vite**
- **React** was used to create the front end of the web application, together with **TypeScript** and the basic web technologies
- **Axios** was used for accessing a third-party API with recipes
- **Zustand** helped achieve a clean state-management
- **Firebase** provided basic and google authentication

Chat-app: web-socket communication [🔗](#)

- **Node.js** together with **Express.js** used for creating the backend
- **Socket.io** provided socket communication
- Basic web technologies used to create the front-end

Task manager API: RESTful API [🔗](#)

- **Node.js** together with **Express.js** used for creating the backend
- Authentication using **jsonwebtoken** (JWT) and **bcryptjs**
- **MongoDB** schemas and aggregations using **mongoose**
- **Multer** was used to work with media upload

Certification

MongoDB Certified Associate Developer (Node.js) [🔗](#)

Languages

- Romanian - Native
- English - Full Proficiency fluency
- Russian - Intermediate
- Spanish - Intermediate

Skills

- Version control
- Python, C, C++, Java, F#, JavaScript, TypeScript
- Linux, Unix
- HTML, CSS
- Node.js, Electron, Express.js
- React, Redux, Zustand
- MySQL, MongoDB,
- Agile, Scrum
- Jest, Cucumber, vitest
- Strong organizational and time-management skills
- Exceptional communication and interpersonal skills
- Ability to work independently and as part of a team
- Detail-oriented and able to handle multiple tasks simultaneously