



ALEXANDRU-DANIEL  
**BADUCU**  
Software Engineering  
Student

I am an ambitious and diligent student of software engineering who is constantly looking for chances to use and develop my technical abilities in a work environment. Having a strong work ethic, flexibility, and a solution-focused approach, I'm dedicated to helping the organization succeed. In particular, prompt engineering and AI agents spark my curiosity, and I am excited to use this enthusiasm in useful, significant ways.

## Education

### Syddansk Universitet

Bachelor in Software Engineering  
Currently in 4th semester  
2023 - 2026

### National College "Calistrat Hogaş"

Curriculum focused on Computer Science  
Completed in 2022

## Hard Skills

- Proficiency in C, C++, Python and C#
- Project management and team work
- Software Development & Design
- Machine Learning & AI Agents

## Soft Skills

- Problem-solving and critical thinking
- Leadership and Teamwork
- Multi-Tasking
- Initiative and Proactiveness

## Language

Romanian - Mother tongue  
English - Advanced  
Danish - Beginner

## Professional Experience

Data Entry Operator, London UK

### CPS Contracting

May 2023 - August 2023

- Assisted the team in developing a python script to ease the collection and storage of data.
- Entered large volume of data daily, with high degree of accuracy.
- Assisted staff with locating important records and retrieving database information

Front of House, Watford UK

### Whitbread Premier Inn

August 2022 - May 2023

- Responsible for delivering exceptional customer service in hospitality environments, including bars, restaurants, and front desks.

## Projects

### Formula Student, Driverless, SDU Vikings

- Early development, by making use of ROS2 the team's purpose is to adopt an efficient autonomous driving vehicle
- skills: embedded, teamwork

### Machine Learning European procurement analysis

- Early development, 4th semester project is a tool designed to help spot peculiar European Procurements
- skills: openai, langchain, decision trees, clustering, teamwork, agile project management

### A.I. shopping agent

- Making use of the python browser-use library, the project focuses on utilizing LLM's capabilities to facilitate the automation of shopping for food.
- skills: openai, browser-use, prompt engineering,

### Student performance prediction

- Showcases how the implementation of multiple linear regression, using the PyTorch framework can be used in order to predict a student's performance based on factors.
- skills: pytorch, jupyter notebooks

### Local LLM, typing agent

- Making use of Ollama's RESTful API, the Mistral:7b model the application is designed to aid the end-user with grammar and spell checking.
- skills: ollama, prompt engineering,

### Desk control system

- Web based control panel for standing desks, with built-in optimizations and data persistence in order to benefit the end-user's health trough gamification.
- skills: web development, data persistence, API

### Danfoss study case, Heating assets optimizer

- Cross-platform application with the purpose of visualizing and optimizing the operating cost of an asset trough different weather cases.
- skills: C#, google OR-Tools, API

## Mentioning

- Three times First Tech Challenge Award Winning Robot
- Professional Competence Certificate: Information technology and Informatics Learning, English as a Foreign Degree
- SDU Vikings, Formula Student Organization