Constantin Gheorghe

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https://github.com/costingh

Education

University Politehnica of Bucharest: Candidate for B.S. in Automatic Control and Computer Science, expected to graduate in June 2023.

Relevant coursework

Data Structures and algorithms

Spring 2020

- Learned and implemented common algorithms used
- Learned how to analyze the time and space complexity which determines how fast a program runs and how efficiently it uses computer space

Operating Systems

Spring 2019

- Understood computer system design
- Understood processes, threads and resource management
- Learned how to use Bash command line interface on Linux

Object Oriented Programming

Fall 2020

- Learned the difference between procedural and OOP
- Gained an in-depth understanding of OOP concepts

Optimization Techniques

Spring 2021 – present

- Learn how to identify and solve optimization problems that underlies many Machine Learning algorithms
- Learn how to implement optimization algorithms in Matlab
- Understand Big Data and Machine Learning applications

Personal Projects

- *Pathfinding Algorithm Visualiser:* A tool being able to animate a path between two nodes from a grid. The pathfinding algorithms implemented are: Dijkstra, A*, BFS, DFS. The user can draw walls, set animation speed and choose an algorithm for animating the path. This task was realized using mainly JavaScript (React.js).
- *Todo app:* A Web Application written using HTML, CSS, Django, JavaScript and PostgreSQL. It allows an user to perform basic CRUD operations: add a task to a category, read, edit and remove it.
- *E-Store*: A C++ store management app. There is a server where data about products and users is stored in a JSON format. There can be performed tasks like searching for a product, searching for a type of user, or even adding a product in a cart or removing it.
- *Code Editor:* This is a live browser code editor, that allows a user to write HTML, CSS and Javascript code, and shows the output in a panel. The user can also download the output file, or change editor settings

(theme, font size, auto close tags, tab dimension ant many more).
More projects are listed at https://github.com/costingh.

Technical skills
- Good/Advanced skills: Java, C/C++, Javascript, HTML, CSS, React
- Intermediate skills: Git, Node, Express, MongoDB
- Beginner skills: Bash, Python, Matlab, Django, Redux

Problem Solving Skills
- High motivation for self-study, ability to be detail oriented, and ensure work produced in of high quality.
- Ask appropriate questions to get to the root of the problem.
- Combine patience, determination, and persistence to troubleshoot issues.
- Able to work with people to help identify options and deal with problems calmly and efficiently.
- Skilled at evaluating options and generating solutions.

Teamwork skills
- Accustomed to working in groups during academic projects.
- Strong commitment to team environment dynamics.
- Hardworking, forward-thinking team member, positive and conscientious attitude towards safety.

Communication Skills
- Strong presentation skills and confidence demonstrated by experience of delivering presentations at university to groups of six to thirty.
- Able to communicate effectively with professors and colleagues by showing interest, carefully listening to needs and appropriately adjusting my message.

Certifications
- Web programming, Hackademy, expected date of completion - July 2021
- Crash course in Python, by Google Career Certificates on Coursera – September 2020