

Andrei Petrea

Computer Science Student



Contact

- +40725195189
- scpetrea@gmail.com
- Andrei Petrea
- andreipetrea

About me

A creative, diligent, and ambitious computer science student with a deep passion for AI and cybersecurity. Proficient in English and adaptable to any work setting, possessing outstanding teamwork skills and interpersonal abilities, with an extensive portfolio of projects, demonstrating proficiency in both high-level applications and low-level software. Always eager to push my boundaries and take on new challenges.

Interests

Computer Architecture
CyberSecurity
Machine Learning
Data Science

Languages

English | C2

EDUCATION

2021 - 2025

Bachelor of Computer Science

· University Politehnica Bucharest

Relevant Coursework: *Operating Systems, Data Structures and Algorithms, Object Oriented Programming, Algorithm Design and Analysis, Programming Paradigms*

Undergraduate Teaching Assistant: Provided hands-on guidance and support to students in mastering the concepts of OOP applied to the Java programming language

PROJECTS

July 2023

Professional Portfolio

REACTJS, EMAILJS, TAILWINDCSS

- Designed a fully responsive website for a medical student containing a **Hero** section and animated **carousel**
- One-page design with **infinite scroll** and **smooth CSS transitions** to sections
- Utilises EmailJS API to **send emails** from website to personal inbox

April 2023

Online Chess Game

REACTJS, EXPRESSJS, SOCKETIO, HARPERDB

- Developed an online room-based chess app offering the opportunity to play against both **AI bots** and other **human players** alongside two other colleagues
- Featuring **real-time chatting** and the ability to **pause** and **resume** games at a later date
- Helped design the **UI** interface and deployed the app in a **Docker** container

January 2023

School Management Application

JAVA, SWINGGUI

- Created an app for marking, updating and reviewing student grades and sending report cards to their family
- Designed using a suite of design patterns including **Singleton**, **Factory**, **Strategy**, **Builder**, **Observer**, **Visitor** and **Memento**
- Features a GUI utilizing the **Swing** library comprising of 4 pages: **Login**, **Student**, **Teacher** and **Parent**, being able to be dynamically updated

December 2022

HackITall: Experiential shopping

PYTHON, THREEJS

- Built an online AI-powered retail shop during the course of a 24-hour hackathon
- Features a **fully-rendered 3D shop** in Blender with various custom-made articles of clothing
- An **artificial intelligence** system monitors customers' habits and recommends products with **76% accuracy** that they are more likely to purchase

CERTIFICATES

Autumn 2022-2023

Web Programming 101

CERTIFIED · hackademy

Spring 2021-2022

Python Programming 101

CERTIFIED · hackademy

Autumn 2021-2022

CCNA: Introduction to Networks

CERTIFIED · hackademy

COMPUTER SKILLS

Programming languages

- MEDIUM KNOWLEDGE:** C, C++, JAVA, JAVASCRIPT, HTML, CSS
- BASIC KNOWLEDGE:** C#, HASKELL, LISP, PYTHON, TYPESCRIPT

Technologies/Tools

- LINUX, GIT, REACTJS, DOCKER, TAILWINDCSS, NODEJS