

Alexandra Gabriela Culea

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Education

University POLITEHNICA of Bucharest Faculty of Electronics, Telecommunications and Information Technology Approached subjects: Object Oriented Programming, Robotics, Data Structures and Algorithms, Microprocessor Architecture, Digital Integrated Circuits	2022 - 2026
"Mihai Viteazul" National College Mathematics and Informatics	2018 - 2022

Courses and experience

Oracle Cloud Infrastructure Generative AI Professional	July 2024-September 2024
Marvell ASIC Design Summer School <ul style="list-style-type: none">• Package Design Module• Introduction to package planning and layout, by using Allegro Cadence• Introduction to signal and power integrity, and thermal analysis	July 2024
NXP Summer School- Cryptographic, Algorithms in Embedded Systems <ul style="list-style-type: none">• Course and hands-on lab• Introduction to Embedded Systems (Microcontrollers) using MCUXpresso IDE• Introduction to Cryptography• Testing in embedded systems	June 2024
Python 101-Hackademy	March 2024-June 2024

Projects

Travel Mate github.com/AlexandraCulea/TravelMate <ul style="list-style-type: none">• A web application using Python and Flask that employs AI to produce personalized text based on user-provided parameters submitted via an online form.• This application incorporates a machine learning model to generate content dynamically, highlighting my abilities in AI, web development and user interface design.	
Arduino Car <ul style="list-style-type: none">• The project aims to build an Arduino-powered car capable of moving in four directions. Key components include an Arduino microcontroller, a motor driver, DC motors, wheels, and a chassis.	
Health Tracker Journal github.com/AlexandraCulea/HealthTracker <ul style="list-style-type: none">• By using Python, the web application presents a health tracker journal that helps the user to monitor his sleep, diet, physical activity, mood and symptoms by giving the user a daily/weekly report, which can be exported.• The application uses Flask for page rendering and design, utilizing HTML, CSS, and the Jinja framework for dynamic content changes based on user inputs.	

Programming Languages and Technologies

- C/C++, Python, HTML, Verilog, SQL, Matlab
- MySQL, JSON, Autodesk Inventor, Vivado, Android Studio, Arduino IDE, Visual Studio Code