

EMA-IOANA BĂNESCU

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EDUCATION

University POLITEHNICA of Bucharest

Bucharest, RO

Faculty of Automatic Control and Computers, Bachelor's Degree October 2023 - June 2027

- Department of Computers and Information Technology.
- Relevant coursework: Computer Programming (C), Data Structures (C), Object-Oriented Programming (Java), Numerical Methods (MATLAB).

Constantin Carabella High School

Târgoviște, RO

High School Diploma

September 2019 - June 2023

Specialization: Mathematics and Computer Science.

Academic Honors: Merit scholarship for academic excellence, **GPA: 9,90/10.**

PROJECTS

NIST Security Validator Application <https://github.com/banescuema101/NIST-security-validator>

- Created during participation in MATH4ENG summer school, accredited by EELISA.
- The application uses four algorithms that I implemented in Python, to test the pseudo-randomness of the encryption keys used in cryptography. Each algorithm represents the implemented version of the statistical tests recommended by the National Institute of Standards and Technology
- The Graphical User Interface is developed using Tkinter module from the Python standard library.

Photo management web app

https://github.com/banescuema101/image_gallery_app

- The website has both a front-end part, which I created using HTML, CSS, Bootstrap and Jinja templating engine, as well as a back-end part built with flask. Also, I used Docker to ensure that the app runs consistently across different environments.
- The site includes authentication functionality, consisting of an HTML form, menu links, and associated Flask routes. It features admin authentication for file upload permissions, allowing users to see an unauthenticated front page displaying all uploaded images. After logging in with a specific username and password, users are directed to an authenticated page with an image upload form and associated Flask functions.

CERTIFICATIONS

CCNA 1

Cisco Networking Academy

Web101 (HTML, CSS, and JavaScript basics)

Cisco Networking Academy

SKILLS AND INTERESTS

Languages:

Romanian: Native, English: Fluent, French: Beginner

Technical:

C (Advanced), Python (Intermediate), Java (Intermediate), MATLAB (Beginner), Tkinter (Intermediate), HTML, CSS (Intermediate), JavaScript (Beginner), Bootstrap (Intermediate), Git (Advanced)