Timbus Maria Alexandra

+40770714678 | timbus.maria.alexandra@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

University of Bucharest   **Oct 2025-June 2029**
B.S. in Computer Science
- **Courses:** Computer programming, Logic design, Physics, Mathematical analysis, Algebra&Geometry, Operating Systems

International Computer High School of Bucharest(ICHB)   **Sept 2021-July 2025**
Mathematics-Informatics
- **Courses:** Math–Informatics, Intensive Informatics | GPA: 10/10
- **Honors:** FTC Romania National Awards (Think Award 2022; Motivate Award 2023, 2024, Connect Award 2025), NASA Space Settlement (2nd place 2023 & 2024)

TECHNICAL SKILLS

Languages (ordered by proficiency): Python (TensorFlow, Pandas, NumPy, Astropy, Matplotlib), C++, JavaScript/TypeScript, HTML/CSS, SQL

Tools and Frameworks: Git/GitHub, React, Node.js, Bootstrap, scikit-learn, SciPy, SolidWorks, Adobe Illustrator, InDesign, Canva

RELEVANT EXPERIENCE

KPMG Romania   **July 2023**
Software/IT Consulting Intern
- Shadowed specialists in both Penetration Testing and IT Security Audit to gain a full-stack view of enterprise security.
- Performed guided web-app penetration tests using professional tooling; practiced SQL injection techniques (Inferential/Blind and Out-of-Band) to map real-world attack surfaces.

PROJECTS

Spectra| *Guided Research at the University of Physics*   **Sept 2023 - Oct 2025**
- Built 1D-CNN models (TensorFlow) to classify stellar types from SDSS DR17 spectral FITS; engineered ingestion and line-detection pipeline with Astropy.
- Achieved ~20% accuracy improvement over baselines; released CLI tools for training/visualization.

ElderConnect | *Personal Project*   **Aug 2023-June 2025**
- Created a volunteer platform connecting high-school students with seniors in care facilities to provide 1:1 digital help.
- Authored simple tech guides (messaging, photos, video calls) to sustain independence; coordinated volunteer onboarding.

Leviathan Publishing | *Personal Project*   **June 2023-Aug 2025**
- Wrote an accessible AI book spanning 10 domains; distilled insights from 100+ papers and industry sources.
- Collaborated with editors on structure, copy-editing, and release; delivered public talks and community workshops.

LEADERSHIP EXPERIENCE

Quantum Robotics (FTC)   **Sept 2021 – June 2025**
Team Leader
- Led a 20+ member team across design, build, and software; coordinated outreach and partnerships.
- Awards: Think Award (National 2022), Motivate Award (National 2023, 2024), Inspire Award 2nd (Regional 2024), Connect Award (Regional 2023).
- Presented projects to 3 Romanian ministers and international delegates; organized K-12 workshops reaching 500+ students/yearly, 364k people reached/yearly, 400H Ran&Hosted events /yearly

Hands-on Future — Hackathons (6 events)   **Aug 2023 – Dec 2023**
Engineering Coordinator
- Produced challenge briefs, ran workshops on 3D CAD/prototyping, and supported teams from idea to demo.

WAI Conference & Romanian Youth Hospitality Competition   **Oct – Nov 2023**
Marketing Lead
- Built promo assets, managed participant comms, and supported onsite operations for 500+ attendees.

Romanian Youth Space Competition   **Oct 2023**
Operations Lead
- Coordinated venues, schedules, and equipment; served as liaison across participants, judges, and sponsors.

VOLUNTEERING EXPERIENCE

ICHB Volunteering   **Sept 2021 – June 2022**
Volunteer Coordinator
- Initiated fundraising efforts (incl. support for Ukrainian refugees); recruited and managed volunteer teams.

Casa Bună   **Sept 2023 – Sept 2025**
Volunteer Tutor
- Tutored under-resourced students in Math and Romanian; built individualized plans and formative assessments.
- Coordinated with staff and volunteers to align objectives and track learning progress.