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PROFILE

My programming journey began at a young age with Python, where I first discovered the art of turning ideas into code. However, I soon found myself drawn to the precision and control of systems programming, falling deeply in love with Rust and C++. My greatest passion lies in low-level programming, where performance meets elegance and every optimization tells a story.

VOLUNTARY WORK

- **Backend and Frontend work at think up academy Cluj-Napoca**   *2023 - 2024*

  Working on their single page promotional site, and also on their e-learning platform
  - Tools & technologies used: Python (flask), NextJs, MongoDb, WordPress
  - I was tasked with making endpoints for the backend, and architectural choices for both the backend and the frontend
  - It was also my first time having to clear deadlines and goals set by others.

- **Member of the service club for youth Interact**   *2023 - 2025*

  Actively participated in and contributed to the organization of diverse club events and activities.
  - Gained experience in teamwork, event management, and community engagement.
  - Contributed to organizing various community events, including treasure hunts and themed parties.
  - Assisted in the planning and execution of nationwide club initiatives.

ACHIEVEMENTS

- **6th place, silver medal, and an endorsment from M.E.C.** at the **National Olimpiad of inovation and digital creation**   *2024*
- **12th place, Silver medal and an endorsmet from M.E.C.** at the **National c#** olympiad   *2025*
- **2nd place** at **Unihack** international hackathon   *2024*
- **18th place** at the **Acadnet** national olympiad   *2025*
- **54th place** on **pbinfo.ro** :)   *Present*

PERSONAL PROJECTS

- **Mitz**   *February 2025 - Present*

  Cross platform video game
  - Tools & technologies used: Kotlin, c#, GdScript, Rust Postgressql, Docker, dotnet entity framework
  - Uses both native and platform independent code to provide an overlay that is always on the users screen no matter what application they use.
  - Has A.I. integration, allowing your homescreen pet to talk to you in a customized manner

- **designing + building one handed keyboard**   *2022*

  Designing from the ground up a one handed bluetooth keyboard
  - Tools & technologies used: C, CMake, Python
  - First exposure to embeded development C and low level programming
  - Has 4 layers of functionalty that either activate the right or left side of the keyboard, and a bunch of other functions like moving a mouse cursor, left and right click, etc...

- **pbinfo-cli**   *2024 - Present*

  cli program for pbinfo.ro
  - Tools & technologies used: Rust
  - A cli program that, by reverse engineering the api of pbinfo.ro, can log the user in, upload solutions as the user, and lookup a multitude of other things

- **depy**   *August 2024*

  declarative dependency manager for Windows in the style of nix
  - Tools & technologies used: Rust, Scoop
  - This was made for the 2025 edition of infoeducatie. Manages dependencies based on a .depy file that automatically adds dependencies to path. Also has a gui.
  - Also contributed a few uses to scoop to fit my usecase.

- **sala-management**   *September 2024*

  automatic sms sending subscription app
  - Tools & technologies used: Flutter, Kotlin, MongoDb, Nodejs, Docker
  - A client needed automatic sms sending to subscribers that have an expired subscription so i made a custom app that uses android AlarmManager to send sms messages to expired users

Technical Skills and Interests

Most skilled in: Rust, modern C++, C#
Build systems: CMake and Make
Programmed / Some experience in: Kotlin, Java, Python, JS/TS, Dart, GdScript, nix, Haskell
Database: Postgressql and MongoDb
Compartimentalisation: Docker, VirtualBox
Mobile dev: Flutter / Dart, Native Kotlin
Scraping: scraper that ran as a SASS product in the cloud that scraped infromation from specific spotify users, circumventing many antiscraping measures (JS); A scraper that ran in the cloud for 3 months and scraped 3 Tb of data (Rust); A scraper that circumvented rate limiting on a public database and scraped over 3000 datapoints in under 3 hours, a job which should have taken a few months usually (Rust)
Google cloud platform and server administration: I have a personal home server and I also deployed many project to GCP
Linux: I have been daily driving NixOs for aprox 2 years
Cyber security experience: reverse engineering asm and web apis

Education

• **Mathematics and Informatics Profile** *2022-Present*
National High School "Emanuil Gojdu", Oradea

Languages

English C1 Fluent **Romanian** C2 Native