

ADRIAN ARITON

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EDUCATION

Bachelor of Computer Science and Engineering, Politehnica Bucharest, CTI

Sept 2022 - Present

- SEEMOUS 2023 **Silver Medal**
- Received "Introduction To Linux" Hall of Fame membership

AWARDS AND HONORS

- **1st place and Gold Medal** at the National Mathematics Olympiad, National Phase 2019
- **Winner** of Swift Student Challenge 2022
- **1st place** at the Informatics Olympiad, Regional Phase 2020
- German language certificate: **DSD, level B1**

EXPERIENCE

Full Stack Developer

June 2022 - Sept 2022

AscentRomania - Online Perfume Shop

Focsani, VN, Romania

- Developed a full-stack **e-commerce website** using **MongoDB**, **Express.js**, and **pug/jade** for server-side rendering
- Implemented **web sockets** for user input reactivity
- Organized data using **MongoDB Collections** with **Mongoose**.

PROJECTS

HEPHAESTUS++ Mathematical Computing Tool

<https://github.com/adrianariton/hephaestus>

- C++ library equipped with **Tensors**, Tensor Contraction with Einstein Notation, and 100 digit precision Arithmetic using **CORDIC**
- Uses **Newton-Raphson** for solution finding and **Risch algorithm** for symbolic integration, as well as **the Remez algorithm** for polynomial approximation
- The final goal is to parallelize it so that it can be used for **Machine Learning**

BCR George Redesign - Search Optimization

HackITall 2023 - AHA!

- Connected to **Google Maps API**, and **BCR API** in order to find the closest BCR location to the user
- Performed deep search based on the user's input and found the location using a **language model API**.
- Placed in the **Top 5 out of 80+**

Backend Developer and CoFounder

ILabs 2023 - Mohican

- Created a **flask backend** and ran parallel tasks to scrape websites for their features. Trained a model to classify websites in 3 categories and used their features to modify Ad templates.
- Qualified to the **final phase of Innovation Labs**

Hypercube Visualisation Tool.

- Built an app that displays an interactive 3D projection of N dimensional Hypercube. Developed it for the **Swift Student Challenge** and was one of the winners!

SKILLS AND TECHNOLOGIES

C, C++, Python, Tensorflow, JS, MERN
SQL, Java, Octave, Julia, Blender, LaTeX