

# ARITON ADRIAN

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## EDUCATION

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**Bachelor of Computer Science and Engineering**, Politehnica Bucharest, CTI Sept 2022 - Present

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

**"Unirea" National College** Sept 2018 - Jun 2022

- **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

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**Full Stack Developer** June 2022 - Sept 2022  
AscentRomania - Online Perfume Shop *Focsani, VN, Romania*

- Connected directly to a **MongoDB** database with an **Express.js** backend and used **pug/jade** for server side rendering
- Implemented **web sockets** for user input reactivity
- Organized data using **MongoDB Collections**, with **Mongoose**

## PROJECTS

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**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

- Connected to **Google Maps API**, and **BCR API** in order to find the closest BCR location to the user
- Performed deap 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

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C, C++, Python, JS, Node.js, express.js, React, SQL, NOSql Databases, Java, Arduino, Blender