Antonio Hus

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Education

Bachelor of Science in Computer Science   Oct 2023 - Jul 2026
Babeș-Bolyai University   *Cluj-Napoca*
- **Average Grade:** 9.54 / 10.00
- **Language of study:** English
- **Relevant Coursework:** *Operating Systems* (Shell, C), *Data Structures and Algorithms* (C/C++), *Object Oriented Programming* (C/C++), *Fundamentals of Programming* (Python).

Mathematics and Computer Science   Sep 2019 - Jul 2023
Emanuil Gojdu National College   *Oradea*
- **Baccalaureate Grade:** Computer Programming (9.75/10.00), Mathematics (9.95/10.00)

Courses & Certifications

Introduction to Deep Learning   Jun 2024 – Jul 2024
MIT 6.S191   *Remote*
- **Endorsed Skills**: Neural Networks (RNNs, CNNs), Generative AI (GANs, VAEs), Reinforcement Learning, LLMs
- **Projects**: Music Generation, Digit Classification, Unbiased Facial Detection, Autonomous Driving

Web Programming with Python & Javascript   Feb 2024 – Mar 2024
Harvard CS50W   *Remote*
- **Endorsed Skills:** Django, React.js, Python, Javascript, SQLite3, HTML, CSS, Bootstrap, Docker
- **Projects:** Search, Wiki, Auctions, MailBox, Social Network

Personal Projects

News Aggregator | *Django, React.js, PostgreSQL, Celery, Python, Javascript, Docker*
- Developed a web platform that aggregate news articles from multiple sources, offering users one place to stay informed with all the important current events in the country.
- Reduced database update times as measured by the efficiency of article update checks, designing a hashing mechanism so that only 192 characters are examined instead of the original 5096.
- Increased user engagement by implementing a recommendation system that combined collaborative and content-based filtering algorithms, delivering personalized and relevant content to users.

AI Customer Support Dispatcher | *Qt Framework, C++, LLMs, Docker*
- Created a Banking Customer Service platform to illustrate the potential of AI in automating dispatcher roles, thereby reducing client wait times and increasing company revenue.
- Leveraged Meta's LLama3 8B parameters AI model to accurately assign inquiries to the most appropriate department and determine their urgency level in just a few miliseconds.
- Utilized design patterns like Observer, MVC, and Iterator to increase system modularity and maintainability.

Skills

Programming Languages: C/C++, Python, JavaScript
Version Control Technologies: Git, Github
Databases: PostgreSQL, SQLite3, MS SQL
AI Development: TensorFlow, Keras API, Comet ML
Desktop & Web App Development: Qt Framework, Django, React.js, HTML, CSS, Bootstrap, Docker
Spoken Languages: Romanian (Native), English (C2 - Bilingual Proficiency), German (Elementary Proficiency)
Soft Skills: Leadership, Teamwork, Public Speaking, Communication, Problem Solving, Adaptability, Attention to Detail

Awards & Honors

- Awarded with **Performance II** distinction and scholarship in recognition of outstanding academic achievements.
- Ranked **top 30%** of all worldwide participants in *Cloudflight and Bitdefender Coding Contests*.
- Ranked **first** of all teams in *IIOT International Programming Contest* in Bihor County.
- Successfully competed in multiple Hackathons: *Innovation Labs Hackathon, HackDay by Code4.*