

Benjamin Najib

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Information Systems and Computer Science, GPA: 4.00

Relevant coursework:

15-122: Principles of Imperative Computation, 21-127: Concepts of Mathematics,

15-112: Fundamentals of Programming and Computer Science, 21-120: Differential and Integral Calculus

Pittsburgh, PA

Aug. 2024 – May 2028

La Doctrine Chrétienne High School

Specialties: Mathematics, Physics-Chemistry, Engineering Sciences, GPA: 4.00

Strasbourg, France

Sep. 2021 – June 2024

EXPERIENCE

Artificial Intelligence Research Assistant

Department of Soil, Water, and Ecosystem Sciences of the University of Florida

Aug. 2023 – Aug. 2024

Remote

- Developed a water forecasting AI model with N-Beats
- Reported loss performances comparing different optimizers including AdaBelief
- Collected, treated and analyzed hydrological datasets

Information Technology Consulting Intern

Komposite

Oct. 2023

Paris, France

- Fine-tuned a custom LLM with a dataset curated for employees with 7B+ parameters
- Explored enterprise-level database management solutions for clients

Electrical Engineering Intern

Electrical Engineering Department of the National Institute of Applied Sciences

June 2022

Strasbourg, France

- Developed in a team environment a robotic bottle holder using AutoCAD and an Arduino system
- Troubleshooted and soldered on electronic systems

PROJECTS

Evolution Simulator | Python, Numpy, Matplotlib, CMU Graphics

Nov. 2024 – Dec. 2024

- Developed an educational interactive simulation of Darwinian evolution using stochastic models
- Implemented machine learning techniques for determining species environment fitness

PlushieRun | Python, CMU Graphics

Nov. 2024

- Developed in a team environment an action-adventure video game with map generation algorithms
- Placed in exposition for Hack112 course-wide hackathon

AWARDS AND EXAMINATIONS

Mathraining

International

Feb. 2022 – June 2024

Remote

- 87th percentile on Belgian International Mathematics Olympiad training platform with 12K+ ranked users
- Highest scores in Number Theory and Algebra

SAT

International

June 2023

Bordeaux, France

- Scored 1560/1600, 99th+ percentile
- 790/800 in Math, 770/800 in Evidence-Based Reading and Writing

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS

Developer Tools: Git, Vim, VS Code, Google Colab

Libraries: pandas, NumPy, Matplotlib