DENNIS FIALLO

Computer Scientist

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ABOUT ME

I am a computer scientist with a strong passion for machine learning, artificial intelligence, and web development. I am dedicated to staying up-to-date with the latest advancements and leveraging innovative tools. I am a collaborative team player and successfully work with multidisciplinary teams to deliver high-quality software solutions. I am committed to making a positive impact through exceptional software development.

EDUCATION

09/2019 – 01/2024   **Bachelor's Degree**   **School of Math and Computer Science**
University of Havana

- Good grades in most of the subjects of the course.
- Member of "Dynamic Systems Analysis" Research group.

Skills used:
ARTIFICIAL INTELLIGENCE   MACHINE LEARNING   SOFTWARE ENGINEERING   DESIGN AND ANALYSIS OF ALGORITHMS   DATABASE SYSTEMS   DATA STRUCTURES AND ALGORITHMS   COMPILERS   COMPUTER ARCHITECTURE   DISTRIBUTED SYSTEMS   SIMULATION

09/2015 – 07/2018   **High School**   **Vocational High School Institute of Exact Sciences Vladimir Ilich Lenin**

- Top-performing student at the Vocational High School Institute of Exact Sciences Vladimir Ilich Lenin in Cuba.
- Strong aptitude for mathematics, science, and technology.

EXPERIENCE

09/2023 – present   **Junior Backend Developer**   **Development Department**
Avangenio

- I have worked on international projects as a backend developer, primarily using FastAPI and AWS with a microservices architecture.
- I have worked on developing ERP systems using the Frappe framework.

Technologies used:
PYTHON   JAVASCRIPT   FASTAPI   FRAPPE   POSTGRESSQL   AWS   SQL   HTML   POSTMAN

07/2022 – present   **Freelance**

- Developed and implemented software solutions for clients, including web applications, data analysis tools, and machine learning models.

Technologies used:
PYTHON   DJANGO   FASTAPI   JAVASCRIPT   TYPESCRIPT   REACT   NEXT.JS   POSTGRESSQL   REDIS   DOCKER

06/2021 - 12/2021   **Internship**   **Development Department**
SICMA

- Completed a program on generating business documents with digital signature during my internship at SICMA, gaining practical experience with electronic signature software and ensuring secure and efficient document signing processes."

Technologies used:
PYTHON   QT5

COLLABORATIVE AND PERSONAL PROJECTS ▫

</> LouvreMuseum 🔗
Museum website with data management system for administrators, including a sales and loan system between museums, developed using Python with Django, SQLite, and HTML, CSS, and Javascript with the Bootstrap framework.

</> Skyrimdb 🔗
Project of a dummy Database system to store player and environment data and stats based in Python with Django, Sqlite and HTML, CSS and Javascript with Boostrap frame-work.

</> TagNetFS 🔗
A tag-based distributed file system implemented in Python using a distributed database built from scratch.

</> CausalFlow 🔗
Tool for the representation of causal graphs.

</> NDS 🔗
Turing complete programming language compiler using the Sly library, designed for simulating the development of nations.

</> Mint Shell 🔗
Shell for Linux-based OS based on other existing terminals in C programming.

</> Web Server 🔗
FTP server in C programming language.

</> Haskell Hidato 🔗
Generator and solver for the Hidato Sudoku game in functionalprogramming language Haskell.

</> Azul 🔗
Simulation of the Blue Board Game in Prolog programming Language.

</> medical-knowledge-discoverer 🔗
Knowledge discovery in medical documents using Machine Learning.

</> MusicaMuse (ongoing)
Private project for music generation using machine learning.

</> ESN (ongoing)
Research about the predictive power of Echo State Networks(ESN) for predicting chaotic time series.

SKILLS ▫

☑ Programming and Scripting languages

Python	●●●●●
JavaScript	●●●●○
TypeScript	●●●●○
C#	●●●●○
Assembly	●●●●○
SQL	●●●●○
C/C++	●●●●○
Prolog	●●●○○
Haskell	●●●○○
R	●●○○○

☑ Markup languages

Markdown	●●●●●
HTML	●●●●○
CSS	●●●●○
LaTeX	●●●○○

☑ Frameworks, Tools and libraries

FastApi	●●●●●
Frappe/ERPNext	●●●●●
Git/Github/GitLab/Bitbucket	●●●●●
Next.js	●●●●○
Django	●●●●○
PostgresSQL	●●●●○
Docker	●●●●○
Keras/Scikit-Learn	●●●●○

☑ Algorithms and Math Knowledge

Data Structures	●●●●○
Algebra	●●●●○
Probability and Statistics	●●●●○
Dynamic Programming	●●●○○
Graph Theory	●●●○○