Edward Gaibor

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WORK EXPERIENCE

MIT Research and Technical Intern 06 2023 — 12 2023
"NoBrainer" Sensein Group — Repository *Cambridge, MA*

- Developed scientific software for neuroimaging and other biomedical signals, including neural network models using Docker, Singularity, Slurm, and large language processing.
- Added a new feature that automated the handling of new neuroimaging models using GitHub Actions, Amazon's EC2 machines, and LinkML schemas, improving the workflow by 70 percent. Resulting in user interaction during the OHBM Hackathon and solving many GitHub issues contributing to the open-source tool.

Neuroimaging Research Sloan Fellowship 07 2023 — Now
UMass Boston *Boston, MA*

- Research assistantship with Ph.D. Daniel Haehn related to Boostlet.js, a library that enables framework-agnostic image processing on the web by running machine learning methods on open data repositories such as OpenNeuro.org and utilizing frameworks such as XTK.js, Niivue.js, Cornerstone.js, Papaya.js, Tensorflow, and more.
- Presented research at South Carolina University's Niivue.js hackathon and participated in MIT's BrainHack.

CS460 – Graphics Programming Grader 09 2023 — 12 2023
UMass Boston *Boston, MA*

- I graded and reviewed weekly homework assignments for 30+ senior and graduate students and solved multiple issues related to XTK.js, Three.js, WebGL, and more.

EDUCATION

BS, Computer Science, University of Massachusetts Boston 09 2022 — 12 2025

- Dean's merit scholarship, The Paul English Computer Science Scholarship, Undergraduate Research Fellow funding, The Marie and Thomas Donohue Scholarship.
- Event Planner and Staff @ CS Club Umass Boston. Organized first-ever Hackathon and Google DevFest with 120 attendees.

PROJECTS — MORE IN WEBSITE

Founder, Hydroponic IoT Greenhouse (Website—Github—Paper) 2021 — 2022

- Improved water consumption by +90 percent. As result, got second place in the national competition Junior Water Prize of Ecuador and participated in "Innovadores" – Ecuador's innovation tournament, leading to a reduction of 50 dollars in weekly spending for my school's dining service.
- I created a refill system for water reservoirs with Arduino (C++) and a 24/7 monitoring system of abiotic data using ThingSpeak with MatLab triggers

6 Deep learning projects with Tensorflow (Github—Certificate) 05 2023 — 06 2023

- Built CNN model to predict Pneumonia via images, CNN model to predict galaxy type, Life Expectancy within countries, Medical Cost prediction with patient data, Patient survival rate, Air Quality predictor, and Forest Cover Type Classifier. As a result, I achieved a certification.

SKILLS

Languages	Native Spanish and Fluent English
Programming Languages	Python, Java, C, HTML, CSS, Javascript
Technologies	Sci-kit-learn, NumPy, Pandas, Flask, Matlab, Git, Joblib, ThingSpeak, Arduino, Jupyter Notebook, SSH, MatplotLib, Tkinter, WordPress, Vernier Graphical, VirtualBox, Open CV, Audacity, DiscordDev, Tawkto, Raspberry Pi Imager, Tensorflow – Keras, Docker, Singularity, Slurm

CERTIFICATIONS — MORE IN WEBSITE

- Introduction to Cybersecurity, Foundations of Cloud Computing, IBM: Machine Learning with Python, Building Deep Learning Models with TensorFlow, Build a Machine Learning Model with Python