College Park, MD 20742,
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# Guillermo Mascaro

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## Experience

**DevOps, Intern** **CleverIT** **Summer 2023**

- Implemented continuous integration and delivery (**CI/CD**) pipelines, automating the build, test, and deployment processes for simple **Java** API's using the **Spring Boot** framework.
- Increased DevOps pipeline efficiency by **20%**, leading to a **45-minute** reduction in deployment time.
- Explored and integrated the use of advanced automation techniques such as GitHub Actions, Docker, Kubernetes, Google Cloud Platform and Terraform.
- Demonstrated rapid learning and problem-solving skills in **Agile** environments, delivering daily tasks efficiently and effectively.

## Education

**Boston, MA** **Northeastern University** **Fall 2024 – Spring 2025**

- Incoming exchange student in Computer Science and Engineering.

**Washington DC** **University of Maryland** **Fall 2023 – Spring 2024**

- Exchange Student in Computer Science and Engineering.
- Undergraduate Coursework: Computer Networks; Machine Learning; Data Science; Parallel Computing; Introduction to Compilers;

**Madrid, Spain** **Charles III University of Madrid** **Fall 2021 – Spring 2025**

- B.S. in Computer Science and Engineering . Expected Graduation Date: 06/2025.
- Undergraduate Coursework: Operating Systems; Databases (**MySQL**); Data Structures and Algorithms; Programming I.

## Projects

**Naive Bayes Classifier (Python) (2024)**

- Achieved a training accuracy of **82.5%** and a test accuracy of **82.2%** by implementing a Naive Bayes Classifier on the UC Irvine adult income dataset using the **PyTorch** library.
- Processed a dataset with **48000+** instances to train the model using **Pandas** library.

**Neural Network from Scratch (Python) (2023)**

- Implemented a neural network architecture consisting of an input layer, a fully connected layer with **785 neurons** (including bias), and an output layer with **10 neurons**.
- Trained the network using back-propagation for **8 epochs** with a learning rate of **0.1**, reducing convergence time by **35 seconds**.
- Utilized the **MNIST** dataset to train and test the neural network.

**Convolutional Neural Network for MNIST Dataset (Python) (2023)**

- Developed a Convolutional Neural Network (CNN) using the LeNet architecture for classifying handwritten digits from the **MNIST** dataset.
- Leveraged the **Keras** deep learning library for data preprocessing, model training and evaluation.
- Accomplished a training accuracy of **93%** and a test accuracy of **97%** by integrating convolutional layers, max-pooling layers and fully connected layers.

## Skills

**Languages & Frameworks**
Python, C, Java, Spring Boot, MySQL, Pandas, NumPy, Keras, PyTorch, Scikit-Learn, Distributed systems.

**Databases & Tools**
MongoDB, GitHub, Git, Linux, Node.js, GCP, Docker, Kubernetes, CI/CD, AWS, Nmap, Wireshark, OpenSSL.