

# José Manuel Pedro Méndez

in [ntory](#) | ✉ [jose\\_manuel@ciencias.unam.mx](mailto:jose_manuel@ciencias.unam.mx) | >\_ [Ntory](#) | 🌐 [Jose-MPM](#)

## COMPUTER SCIENCE PROFESSIONAL

With a strong academic background as the elite student I was and practical programming experience, proficient in programming (algorithms, OOP), experienced in full-stack development, and knowledgeable in cryptology and cybersecurity, OS, and networks. Currently specializing in cybersecurity, I want to do a masters in cybersecurity because I want to be part of a purple team. Also knowledgeable in AI, with knowledge in pattern recognition, ML, and neural networks. Known for my strong analytical skills, problem-solving, teamwork and effective communication but mainly for my eagerness to learn and grown every day.

## EXPERIENCE

### UNAM | TEACHER ASSISTANT

Mexico City, Mexico | Nov 2022 - Apr 2024

- Participated in organizing(logistics mainly) the 1st Symposium on Philosophy of Computing at the Facultad de Ciencias which had a full house, gathered almost **400 attendees daily** in the 30 conferences presented during the week and **around 1700 online(always 200 at least)** participants from México, US, Europe and Latin America.
- Assisted in teaching and tutoring students in the seminar Philosophy of Computer Science II: Contemporary Issues. Contributed to course material development, organized and conducted laboratory sessions, graded assignments, and provided feedback.

### CYBERSECURITY EVENTS AND TRAINING COURSES | PARTICIPANT

UniverSity City, Mexico City | 2024

- Training with CYBOLT in Identity Access Management (IAM).
- Enrolled in an Offensive Security seminar taught in the Faculty of Sciences and training with Cisco for the Latin American Cybersecurity Games 2024.
- Attended multiple cybersecurity events to gain knowledge, including Industria 4.0 Ciberseguridad retos y oportunidades 2024(2 days of conferences) and PUMAHAT 2023(I participated in the CTF but came in 9th place, it was my first CTF).

### BBVA (INTERNSHIP OFFER) | FULL-STACK INTERN (OFFER DECLINED)

Mexico City | Nov 2023

I participated in the BBVA 2023 Hackathon and received a job offers as a Full-Stack intern, Declined to complete studies but now **I'm looking to join the world of cybersecurity**. My team develop a Banking Simulator(Full-Stack) but I was behind the Back-End this software **had a login and allowed to make money transfers functionalities**.

## CORE SKILLS

**Strengths:** Analytical Thinking | Problem-solver | Hard and smart-working | Persistence | Creative | Self and Time Management.

**Languages:** Java(Native: Spring, Hibernate) | Python (5 certifications) | Bash | Haskell | Racket | C# | PROLOG(Familiar).

**OS's & System Administration:** Ubuntu, Debian 12, Kali, Windows | Configuration and management of VM and network devices | DB Configuration | OS Configuration.

**Agile Development:** Programming and Design Thinking | Design Sprint | **API interaction** | REST APIs CRUD | SCRUM.

## SKILLS

**Soft Skills:** Critical Thinking | Continuous Learning | Adaptability | Team Collaboration | **Conflict Resolution**.

**Web Development:** Spring | Maven | Bootstrap | Angular | HTML/CSS | JavaScript | TypeScript | Cloud Computing(on Google and Azure)(Familiar) | Git | Docker | Bitbucket.

**Technology/Frameworks:** Tcpdump | WireShark | Nmap | CyberArk | SHA256 | Apache | Linux Command Line | Thor | Postman.

**Databases:** Relational DB & SQL | PostgreSQL(Native) | MySQL.

**Technical Documentation:** Markdown |  $\LaTeX$

**Languages spoken:** Spanish(Native) | English(B2).

## EDUCATION

### SCIENCE COMPUTER

GPA:9.53(101%)

FACULTAD DE CIENCIAS UNAM

Mexico City - CU | Dec 2023

Relevant Courses: Cryptology and CiberSecurity, Operating Systems, Computer Network, Advanced Data Structures, Algorithms Analysis, AI, Neuronal Network, Pattern Recongnition and ML, Software Design; Back-End Development.

SINCE MY STUDIES IN THE "COLEGIO DE CIENCIAS Y HUMANIDADES" I HAVE LEARNED HOW TO LEARN AND NOW I PLAN TO DO IT IN THE BEST WAY POSSIBLE.

## PROJECTS

### **FINE TUNING OF GPT-2 FOR DIAGNOSTICS**

PYTHON, TRANSFORMERS, TENSORFLOW(KERAS), SKLEARN

Project where we compared a our fine-tuning of gpt-2 vs B-LSTM vs Naive Bayes Clasifier for making disease diagnoses.

### **AUTOENCODER FOR IMAGE DENOISING**

PYTHON, TENSORFLOW(KERAS), SCIKIT-LEARN

Proyect where we compared a our fine-tuning of gpt-2 vs B-LSTM vs Naive Bayes Clasifier for making disease diagnoses.

### **"CIENCIAS TOP"**

JAVA 11, TYPESCRIPT, HTML, CCS, JAVASCRIPT, MAVEN, POSTGRESSQL, SPRING

Software (Back-End and Front-End) that allows renting some entertainment products using puma-points. CP-ABE encryption and used it to ensure files are secure at rest.

### **"TACO RIENDO" DATABASE**

THINKING DESIGN, SQL, PLPGSQL, POSTGRESSQL, PGADMIN4.

"Taco Riendo" taquerias database, school project of the subject Fundamentals of Databases. The database has several functions, several triggers and some useful procedures for the users.

### **VISUALIZATION OF SORTING ALGORITHMS**

JAVA, AWT, SWING, MAKE

A program that visually displays the steps of different sorting algorithms in an image. The MVC design pattern is used to separate the program logic into different components. The Factory Method design pattern is used to create Sort objects from parameters given in the constructor. The Observer design pattern is used in the UpdateWorker class, where partial updates of the image are published during the execution of the sorting algorithm.

### **MINIMUM WEIGHT GENERATOR FOREST**

PYTHON, DISJOINT SET, PRIORITY QUEUE.

Program that finds the minimum weight generator forest of a given graph in a txt file using kruskal's algorithm with disjoint sets.

## PERSONAL INTERESTS.

- Philosophy (I am participating in a seminar on the philosophy of computer science taught at my school.)
- Weightlifting (I like to exercise my body and become stronger every day.)
- Box(Beginner) and Rap Music.