MSc. Giovanni Gamaliel López Padilla

Master of Science in Computer Science and Machine Learning
Bachelor in Physics with specialization in solar radiation
Independent scientific researcher

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EDUCATION

- **Bachelor of Physics** *2016-2020*
  Universidad Autonoma de Nuevo León Professional ID: xx

- **Master of Science with specialization in Computer Science and Industrial Mathematics** *2021-2023*
  Centro de Investigación en Matemáticas

PERSONAL PROJECTS

- **Daily UV Index forecast based on in situ measurements in the Monterrey Metropolitan Area.**
  A website based facial authentication system, implemented using a Chrome Extension.

  – Facilitating users' logins to websites without having to remember their credentials
  – Used Live detection techniques to create high order security.
  – Technology Used: Python, Reactjs, Bootstrap.

- **Segmentation of the capillary vessels of the eyes using the pix2pix model.**
  Segmentation of the capillary vessels of the eyes using the pix2pix model.

  – Used Firebase Authentication(SDK) to facilitate authentication & Cloud Firestore to store data.
  – Technology Used: Reactjs, Firebase, Bootstrap, HTML.

- **Automatic detection of aggressive tweets**
  Daily and weekly updated statistics tracking the number of COVID-19 cases, recovered, and deaths.

  – Tracking world-wide cases using google maps and live API stats and datasets.
  – Technology Used : JavaScript , CSS, HTML, API.

EXPERIENCE

- **AWS Cloud Virtual Internship** *May - July 2023*
  AICTE-Eduskills Online
  – In-depth understanding of AWS cloud computing services, including EC2, S3, RDS, Lambda, IAM, VPC, and more.
  – Proficient in designing, deploying, and managing fault-tolerant, highly available, and scalable AWS solutions.
  – Strong knowledge of architectural best practices, such as AWS Well-Architected Framework, security, performance, and cost optimization.
  – Hands-on experience in cloud infrastructure provisioning, monitoring, and automation using AWS Management Console and AWS CLI.

- **Palo Alto Cybersecurity Virtual Internship** *Dec 2022 - Feb 2023*
  AICTE-Eduskills Online
  – Learned the fundamentals of Security Operations Center (SOC).
  – Learned basics of Network & Cloud Security.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Javascript, HTML+CSS
Libraries : C++ STL, Python Libraries, ReactJs
Web Dev Tools: Nodejs, VScode, Git, Github
Frameworks: ReactJs
Cloud/Databases:MongoDb, Firebase, Relational Database(mySql)
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Web Design and Development, Cloud Security.
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

POSITIONS OF RESPONSIBILITY

- **On Desk Registrations Volunteer** Aarhant Cyber Week Event - RCOEM, Nagpur *Oct - Dec 2022*

  – Helped to attract close to 300 attendees to the event.
  – Collected over Rs. 20,000 in entry fees for different activities.