ALEJANDRO CISNEROS OCAMPO

Engineering intern

Nationality: **Mexican**

CONTACT

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LANGUAGES

- Spanish ●●●●●
- English ●●●○○

EDUCATION

MECHATRONICS ENGIENNERING

Faculty of Engineering, UNAM
(2018-2024 [degree in process])

CYBERSECURITY CERTIFICATE PROGRAM

Faculty of Engineering, UNAM
(2021)

COMPUTER TECHNOLOGY PROGRAM

PROTECO, UNAM
(2019)

Training in:

- GNU/Linux
- Databases
- Web Design
- Computer Networks
- Java 13

Graduation pending in Mechatronics Engineering at UNAM, having completed all coursework. I possess knowledge in areas such as cybersecurity, blockchain, Industry 4.0, and programming. I have extensive experience using programming languages such as Java, C, C#, and Python, which I have applied in academic, commercial, and self-taught projects for software development focused on process automation, artificial intelligence, video game development, and microcontroller programming. I can implement techniques in cybersecurity, SQL or NoSQL databases, smart contracts, concurrent programming, and web services in my projects.

I am committed to continuous learning and the practical application of my skills to effectively contribute to challenging projects.

EXPERIENCE

Object-Oriented Programming Instructor focused on blockchain at Blockdemy (2021)

- Participated as a Java instructor for clients from various parts of the world.
- Support for Blockchain Consultant and Blockchain Developer courses
- Participated in recorded programming classes for course sales.

Instructor in training courses at PROTECO UNAM (2019 - 2022)

- I taught and developed course materials for students at the Faculty of Engineering, as well as for exchange students and the general public. I highlighted my experience in teaching the following topics:
  - + Cybersecurity
  - + Computer Forensics
  - + GNU/Linux Operating Systems
  - + Computer Assembly and Maintenance
  - + Proteus Circuit Simulation
  - + Advanced Arduino
  - + Excel

Instructor of GNU/Linux Bash Shell at Cloud Service & Training (2020)

- Training and design of a series of exercises to learn Shell Scripting and commands for Bash.

SOFT SKILLS

- Proactive attitude
- Quick and continuous learning
- Teamwork
- Critical thinking
- Leadership
- Group management
- Public Speaking
- Creativity

FIELDS OF INTEREST

- Artificial Intelligence
- Blockchain and Web 3
- Computer Vision Systems
- Control Systems
- Cyber-Physical Systems
- DevOps
- Economics
- Full Stack Development
- Process Automation
- Robotics
- Scientific Research

HIGHLIGHTED PROJECTS

Symmetric and Asymmetric Encryption System for Bash Shell

Developed an open-source script called "Criptonita" for Bash Shell that facilitates the implementation of information encryption with GPG.

https://aco-626.github.io/criptonita/

Application for Managing and Scheduling Ophthalmology Clinic Appointments

Implemented a non-relational database using Google Firebase and a .NET Framework interface to create a desktop application for scheduling and managing appointments.

Designed a functional prototype of an IoT product for monitoring home electrical installations.

Designed a functional IoT prototype that monitors over 10 parameters, displayed on a web service as an online dashboard. Applied the Ulrich design methodology.

https://github.com/ACO-626/MR-Watson

Application for Vehicle Counting System in Parking Lots

Developed an open-source application in C# .NET Framework with UART serial communication for peripheral connections.

https://aco-626.github.io/ConteoVehicular-Estacionamiento/

CERTIFICATIONS

- Foundational C# with Microsoft - 2024
- NEAR Elementals OWA - 2024
- Cybersecurity Diploma Program FI-UNAM - 2021

TECHNICAL SKILLS

- **Programming:** C#, Java, Python, Shell Scripting, Arduino and MATLAB
- **Computer-Aided Design:** Nx, Autodesk Inventor, Fusion 360, UltiMaker Cura and Proteus
- **Web Design:** HTML, CSS and Bootstrap
- **Version Control:** Git and GitHub
- **IDEs and Code Editors:** NetBeans, Visual Studio, Visual Studio Code, Sublime, Jupyter Notebook, Spyder, Arduino IDE, MATLAB and Gitpod
- **Office Suites:** Microsoft Office, Google Drive and LibreOffice
- **Virtualization:** Oracle VirtualBox and VMware Workstation Player
- **Operating Systems:** Windows and GNU/Linux
- **Terminal Management:** Bash and Zsh
- **AI Tools:** LLama 2**,** GPT-4 and Stable Diffusion