

Guadalajara, Mexico
(+52) 33 3131 9619

Mauricio Alejandro Villalobos Carrillo

GitHub: MAlejandroVC
linkedin.com/in/mavc2000

Education

Guadalajara, Mexico	ITESO	Aug 2020 Jul 2024
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- Bachelor in Computer Systems Engineering.

Leeuwarden, Netherlands	NHL Stenden Hogeschool	Aug 2022 Jan 2023
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- Minor in Computer Vision and Data Science.

Experience

Jr. Data Scientist	Multiburó	Jan 2024 – Present
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Guadalajara, Mexico

- Redesigned and refactored backend API using Django Ninja, greatly enhancing code quality.
- Preprocessed data to ensure consistency and accuracy in machine learning model predictions.
- Efficiently integrated data from external APIs, optimizing processing with JSON-style dictionaries.

Technology Teacher	CEDI	Mar 2023 – Jun 2024
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Guadalajara, Mexico

- Taught Excel, covering basics to advanced topics like dynamic tables, dashboards, and macros.
- Educated students in Fundamentals of Robotics using LEGO-style kits, focusing on creative problem-solving through design, building, and block-style programming.
- Led Arduino Robotics classes, guiding students in building electronic circuits and programming robots to tackle challenges using sensors and actuators.

Computer Vision Researcher	OD Security	Aug 2022 – Jan 2023
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Leeuwarden, Netherlands

- Researched, developed, and trained a machine learning model using YOLOv5 architecture to identify anomalies and contraband in human x-rays.
- Implemented data augmentation techniques to enhance model performance and accuracy.
- Authored and presented a research paper at a Computer Vision & Data Science Symposium.

Projects

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- **Quetzal Network** Designed and prototyped two award winning devices and an app to prevent kidnapping and aid in the rescue of victims. Arduino, React, Mesh Networks
 - **Celestial App** Designed and programmed a mobile app that allowed users to discover and learn about celestial object with information gathered from NASAs official API. Dart, Flutter, Firebase
 - **AWS Note App** Note taking webpage that allowed users to store and synchronize their thoughts utilizing a suite of AWS services. Cognito, App Sync, Dynamo DB, Cloud Front, Amazon S3

Technical Skills

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- Languages: Python, C, C++, Java, JavaScript, RISCv Assembly, SQL, Dart
 - Frameworks: TensorFlow, Scikit-learn, Keras, Django, Flutter, Node.js, Angular
 - Data Science: Dataset Management, AI Model Training, Data Preprocessing, Data Augmentation