

# LUIS ALFREDO CUAMATZI FLORES

## Artificial Intelligence Engineer

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Tlaxcala, México  
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## EXPERIENCE

### Mobile Application Developer for PIT-IPN

#### Instituto Politécnico Nacional

September 2024 – December 2024

- Developed a mobile application to modernize attendance management for the Institutional Tutoring Program (PIT).
- Implemented real-time attendance tracking for professors, centralized cloud data synchronization, and administrative access through the web.
- Designed and structured Firebase databases, including collections for classes and students.
- Automated and optimized traditional processes through mobile and web technology.

## PROJECTS

### Smart EMG

#### Instituto Politécnico Nacional (IPN)

- Development of a mobile application and real-time simulator integrating EMG signals and artificial vision for people with reduced mobility.
- Implemented a neural network for EMG signal classification and the YOLO model for object detection.
- Designed a physical system controlled via the mobile app to enhance accessibility and interaction.

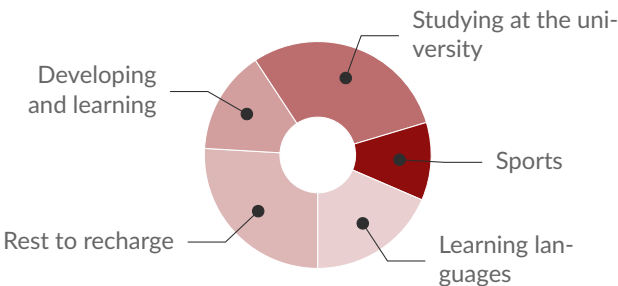
### SmartCrops

#### Queen Mary University Of London (QMUL)

August 2024

- Developed the UI/UX for a simulation system using Jetpack Compose to optimize tomato crop management.
- I proposed integrating AI and IoT to optimize tomato cultivation by monitoring conditions, predicting growth, and automating irrigation.

## A DAY OF MY LIFE



## MOST PROUD OF



### Leadership Formation Program (PFL)

Scholarship to join a leadership program at Queen Mary University of London, focused on teamwork and innovation.



### Academic Excellence

Awarded a scholarship at IPN for academic performance.



### AI and Software Development

Building AI models and apps using TensorFlow, PyTorch, and Jetpack Compose.

## STRENGTHS

Extremme Programming & Kanban

Hard-working

Git

UI/UX Enthusiast

Artificial Intelligence

Mobile Development

SQL & NOSQL

Web Development

## LANGUAGES

Spanish



English



Japanese



## EDUCATION

B.Sc. in Artificial Intelligence Engineering

Instituto Politécnico Nacional (IPN), Tlaxcala, Mexico

Aug 2021 – Present

Current semester: 7th

### Leadership Formation Program

Queen Mary University of London (QMUL), London, United Kingdom

Aug 2024