

## Mateo Segura

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github.com/mateo-segura

## Education

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**Tecnológico de Monterrey (ITESM)**, BS in Computer Science and Technology (ITC) Aug 2023 – July 2027

- Key coursework: data structures and algorithms, object oriented programming.

## Projects

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**Simple habit tracker (<https://github.com/mathewsecure/react-habit-tracker>)** July 2024 – present

- Full stack web application for habit tracking and visualization, using React (Vite) and Express.js with an MVC-inspired architecture.
- Implemented a MySQL database and secure authentication using JWT.
- (React, Vite, Express, MySQL, JWT)

**Tanuki Sunset AI agent (<https://github.com/mateo-segura/tanuki-agent>)** Nov 2025 – Dec 2025

- Developed a Deep Reinforcement Learning agent with Unity ML-Agents that functions as a real-time guide for players in a customized version of Tanuki Sunset.
- Configured the sensory perception with sensors such as Ray Perception Sensor, allowing the agent to process its environment and avoid obstacles in real time.
- Optimized hyperparameters and reward functions analyzed in TensorBoard, achieving the model with the highest success rate and efficiency in the team.
- Collaborated on the technical integration of the model with respawn systems to improve the end-user experience.
- (Unity, ML-Agents, TensorFlow, C#, Reinforcement Learning, Data Visualization)

**Support app (<https://github.com/mateo-segura/tickets>)** Aug 2025 – Oct 2025

- Collaborated on the development of a native Android application for Mac Computadoras, intended for technical support management using Kotlin and Jetpack Compose.
- Integrated security using JWT tokens with role-based authentication (Admin, Technician, Help Desk) and consumption of a REST API for various components, such as the ticket module, using the Volley library.
- Collaborated on the UI/UX design in Figma, architectural documentation through sequence diagrams, and error mitigation by designing a testing plan.
- (Kotlin, Jetpack Compose, JWT, Volley, Figma, Git)

## Volunteer

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**Collaborative content production (<https://www.tusbuenasnoticias.com>)** June 2024 – July 2024

- Collaborated within a team of six volunteers under editorial mentorship, following a structured activity manual to generate content for Tus Buenas Noticias.
- Researched and drafted information for a published article highlighting a key tourist attraction in Cuernavaca.
- Conducted an email interview with the Director of the Museo Regional de los Pueblos de Morelos, focusing on their professional trajectory and institutional challenges to foster social engagement.

## Certificates

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AWS Educate Introduction to Cloud 101, Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate, Scrum Fundamentals Certified (SFC)

## Skills

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**Languages:** English (intermidiate, B2 British Council English Score certificate in process), Spanish (native)

**Basic:** Kotlin, C++, C#, Python, Git, AWS, CSS, TypeScript

**Intermediate:** JavaScript, Express.js, React, MySQL, HTML, Unity