

Mateo Segura

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[github.com/mateo-segura](https://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 2025 – 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 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.

## Certificates

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

## Skills

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**Languages:** English (Intermediate, B2 British Council English Score [expected March 2026]), Spanish (native)

**Basic:** Kotlin, C++, C#, Python, TypeScript, CSS, Git, AWS, Linux, Arduino, Router & Switch Configuration

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

**Proficient:** JavaScript