

Mateo Segura

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## Education

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

## Projects

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**Simple habit tracker (<https://github.com/mathewsecure/react-habit-tracker>)** July 2025 – present

- Building a full stack habit tracking app with React (Vite) and Express.js, following an MVC-inspired architecture to ensure clean separation of concerns and maintainability.
- Designed a MySQL database and secured required endpoints with JWT-based authentication, reducing unauthorized access vectors.
- (React, Express.js, 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 sensory input using Ray Perception Sensors, enabling the agent to process its environment and avoid obstacles in real time.
- Optimized hyperparameters and reward functions, leveraging TensorBoard for analysis, achieving the highest success rate and efficiency among all models in my team.
- (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 using Kotlin and Jetpack Compose, designed for technical support management.
- Integrated JWT-based authentication with role-based access control (Admin, Technician, Help Desk) and consumed a REST API for various components, such as the ticket module, using the Volley library.
- Collaborated on UI/UX design in Figma, documented architecture through sequence diagrams, and mitigated errors by collaborating in the design of 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 wrote 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:** JavaScript, TypeScript, Python, C#, C++, Kotlin, MySQL, XPath, HTML, CSS

**Frameworks & Libraries:** React, Node.js, Express.js, NestJS

**Tools & Platforms:** Git, Docker, AWS, Linux, Unity, Arduino, ESP32, Copilot

**Networking:** Router & Switch Configuration