Mateo Segura

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Education

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

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 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

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

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

Skills

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