Mateo Segura

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github.com/mateo-segura

Education

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

Projects

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.
- 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 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 designing a comprehensive 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 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

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

Skills

Languages: JavaScript, TypeScript, Python, C#, C++, Kotlin, XQuery, HTML, CSS

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

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

Networking: Router & Switch Configuration