



# Yair Duran Frias

## SYSTEMS ENGINEER

Passionate software developer with hands-on experience in full-stack and IoT projects. Specializes in building scalable, high-performance applications, optimizing user experience, and implementing best DevOps practices and agile methodologies.

### > CONTACT

- Phone: (+52) 449 291 4735
- Mail: yair.frias.dev@gmail.com
- Address: Aguascalientes, Mexico.
- github.com/YairFriasDev

### > EDUCATION

#### Universidad Politécnica de Aguascalientes

Bachelor of Systems Engineering, 2021 - 2025

### > LANGUAGES

English: Intermediate (TOEFL B1)  
Spanish: Native

### > CERTIFICATIONS

Junior Cybersecurity Analyst - Cisco Networking Academy, 2024

### > KEY PROJECTS

#### • Blood Bank Web Portal for Hemocel

##### University Social Project

- Led design and implementation of a responsive donation management website.
- Integrated SQLite database with a Vue.js frontend and Express.js backend for inventory and appointment CRUD operations.
- Set up CI/CD pipelines: frontend on Hostinger, backend on Render, ensuring persistent data in /data/hemocel.db.
- Achieved  $\geq 90\%$  Lighthouse performance score by optimizing images and asynchronous code.
- Technologies: Vue 3, Vite, Tailwind CSS, Express.js, SQLite, Git, CI/CD, Azure Blob Storage.

#### • Mobile Surveillance App with React Native & Raspberry Pi

##### University Project

- Developed a cross-platform app detecting motion via sensors and camera, uploading images to the cloud.
- Implemented Azure services (Blob Storage, Functions) for image processing and push notifications.
- Designed MQTT architecture for real-time device-to-mobile communication.
- Technologies: React Native, JavaScript, Raspberry Pi, Python (Flask), MQTT, Azure, Git.

#### • Content Management System (CMS) with React & Node.js

##### University Project

- Built a user-friendly dashboard for content creation/editing with accessibility best practices.
- Developed RESTful API in Node.js with JWT authentication.
- Deployed application in Docker for local testing and on a VPS for production.
- Technologies: React.js, Node.js, Express, JWT, MongoDB, Docker, Agile (Scrum).

#### • Technical Skills

- Languages: JavaScript (ES6+), Python, SQL, HTML5, CSS3
- Frameworks/Libraries: React.js, React Native, Vue 3, Express.js, Flask
- Databases: SQLite, MongoDB
- DevOps & Cloud: Azure (Blob Storage, Functions), Docker, Git, CI/CD (GitHub Actions)
- Tools: VS Code, Linux, Bash, MQTT, Postman, Jira