

HÉCTOR RENÉ MARTÍNEZ VEGA

Systems Engineering Student

Santa Rosa de Copán, Honduras | +504 9750-6626
hectormartinez1vg@gmail.com | github.com/TETvega

Professional Profile

Systems Engineering student in the final stage of the degree, with academic and practical experience in web development, databases, automation, technical support, and technical documentation. I have developed projects using C#, .NET, JavaScript, TypeScript, React, PostgreSQL, and MongoDB, applying REST APIs, authentication, access control, and version control. I am characterized by analytical thinking, self-directed learning, responsibility, and a willingness to take on new challenges.

Technologies and Tools

Programming Languages	JavaScript, TypeScript, C#, SQL, Python, HTML5, and CSS3.
Backend	.NET, ASP.NET Core Web API, Entity Framework Core, REST APIs, and JWT.
Frontend	React, React Native, Vite, Ant Design, React Query, and Astro.
Databases	PostgreSQL, MongoDB, Supabase, and relational data modeling.
Tools	Git, GitHub, Visual Studio, Visual Studio Code, Postman, Docusaurus, Markdown, MDX, Microsoft Office, and Excel.
Infrastructure and Support	Basic Docker, Ubuntu Linux, Cisco Packet Tracer, LAN networking, and computer maintenance.

Professional Experience

Creando Mi Futuro Aquí / USAID

Internship Program Participant

Santa Rosa de Copán

2023 – 2024 | 11 months

- Provided technical and operational assistance during activities carried out with educational institutions, participants, and companies associated with the project.
- Developed a Microsoft Excel automation for diploma generation and data cleaning, reducing manual work and improving information organization.
- Supported the review of internal processes, document organization, and information processing for the technical team.
- Followed up with participants and provided basic guidance related to educational and career coaching.

Education

National Autonomous University of Honduras

Bachelor's Degree in Systems Engineering

2023 – Present

Copán Campus

Degree in its final stage, with training in software development, databases, networking, cybersecurity, and systems analysis.

National Autonomous University of Honduras

Bachelor's Degree in Business Administration and Entrepreneurship

2025 – Present

Copán Campus

Second degree pursued concurrently.

Álvaro Contreras Departmental Institute

Technical and Vocational High School Diploma in Information Technology

2019 – 2022

Santa Rosa de Copán

Featured Projects

SIGREF – Hospital Funds Collection System

C#, .NET, React, PostgreSQL, MongoDB, Keycloak, and Git

Academic Project

- Developed a platform for managing patients, services, receipts, income, shifts, financial closings, and hospital auditing.
- Built an API using ASP.NET Core Web API, Entity Framework Core, PostgreSQL, and MongoDB.
- Developed the frontend with React, Vite, Ant Design, and React Query, incorporating authentication, roles, and permissions through Keycloak and JWT.

ClassNotes

React, TypeScript, Ant Design, and PostgreSQL

Academic Project

- Developed an application focused on managing and organizing notes, classes, and academic content.
- Applied user interface design concepts, reusable components, data persistence, and modular code organization.

Website Proposal for the Confucius Institute

Unofficial Personal Project

Astro, JavaScript, HTML5, and CSS3

- Independently developed an informational website proposal related to the Confucius Institute and Mandarin Chinese education.
- Created the project to learn Astro and practice reusable components, navigation, content organization, and responsive design.
- Conceived as a potential future volunteer contribution, subject to review and authorization by the institution.

The projects and an expanded description of each are available in the GitHub portfolio: github.com/TETvega.

Courses and Certifications

Oracle Next Education Program – Oracle and Alura Latam	331 hours, 2023
Networking Basics – Cisco Networking Academy	70 hours, 2025
Introduction to Data Science – Cisco Networking Academy	2023
Operating Systems Basics – Cisco Networking Academy	2023
Computer Technical Support Workshop – UNAH	20 hours, 2023
Introduction to Web Development I – Google Activate	40 hours, 2023
Web Design with HTML5 and WordPress – INFOP	20 hours, 2024

Volunteer Experience and Community Involvement

- **Christmas in Pediatrics – Hospital de Occidente.** Participated in social activities for pediatric patients during the 2023 and 2024 editions, organized by Leonardo Girón Vega.
- **Copán Virus-Free Campaign.** Participated in the 2024 and 2025 editions, organized by the Systems Engineering program at UNAH Copán Campus, providing technical and social support to the community.
- **Build With AI Copán 2026.** Participated in an event organized by the Systems Engineering program at UNAH Copán Campus and the local Google Developer Groups community, focused on technological development in western Honduras.

Awards and Honors

- **Honorable Mention – 17th Honduran Mathematics Olympiad, Level II.** November 2019.
- **Recognition as a Career Coach – Creando Mi Futuro Aquí / USAID.** Facilitated sessions on confidence, goal setting, and career planning. September 2023.

Professional Skills

Analytical thinking, problem-solving, self-directed learning, teamwork, effective communication, organization, and adaptability.

Languages

Spanish	Native.
English	Intermediate level, with the ability to read technical documentation, write texts, and hold conversations.
Mandarin Chinese	Beginner level, currently studying.

Personal References

Attorney Reyna Patricia Vega Lecturer in Humanities and Social Sciences, UNAH Copán Campus Phone: +504 9588-8171	Livy Sarahi Aguilar Arita, B.A. Bachelor of Arts in Literature and Language, specialist in Spanish language education lunav1306@gmail.com livy.aguilar@educredito.gob.hn
---	---