

# Jonathan García Alvarez

Full Stack Developer with Expertise in Web Applications, System Optimization, and Algorithmic Analysis

📍 Guayaquil, Ecuador | 🔗 <https://elpitagoras14.github.io/>

## Summary

**Full Stack Developer** with 3+ years of experience in **designing, developing, and deploying** secure and scalable web applications. Skilled in **frontend** and **backend** development, with expertise in **database management** and **system optimization**. **Enhanced** performance through algorithmic improvements and **automated** key engineering processes. **Delivered** end-to-end solutions while staying current with industry trends.

## Experience

Telconet LATAM

Jr. Programmer

January 2024 - Present

Guayaquil, Ecuador

- **Led** the migration of a legacy system, overseeing the entire process from designing the new architecture to the final implementation, ensuring a smooth transition and enhanced system capabilities.
- **Developed** web systems using Vue.js and Node.js to automate tasks, reducing manual workload and human review.
- **Engineered** programs to access devices via SSH and apply configurations, improving system administration.
- **Collaborated** with the networking team to optimize automation solutions, enhancing overall performance.

Siemav

Full Stack Developer

August 2023 – January 2024

Guayaquil, Ecuador

- **Migrated** the inventory system from Excel to a web-based platform, boosting process speed by **20%** and improving operational visibility.
- **Designed** PostgreSQL databases and developed RESTful APIs with FastAPI to support scalable and secure backend operations.
- **Collaborated** with frontend teams to enhance dashboard features and optimize user experience.

ESPOL

Algorithm Analysis Academic Assistant

May 2022 - August 2023

Guayaquil, Ecuador

- **Taught** algorithm analysis, guiding students through exercises and problem-solving strategies.
- **Mentored** students on algorithm implementation and optimization, preparing them for competitions.
- **Developed** educational content and provided individual support to enhance understanding of key concepts.

Shippify

Backend Developer

September 2022 - January 2023

Brazil

- **Developed** scalable server-side applications using JavaScript, Node.js, and React to meet customer needs.
- **Designed** and implemented new features, improving software functionality and business outcomes.
- **Conducted** testing and debugging to ensure high-quality, reliable software in production.



Dátil

Software Development Intern

February 2022 - May 2022

Guayaquil, Ecuador

- **Contributed** to the development of new electronic billing features, enhancing system functionality.
- **Implemented** solutions using Clojure, addressing reported issues and improving performance.
- **Collaborated** with the team to maintain and upgrade existing applications, ensuring seamless software operation.

Education			
ESPOL		May 2019 - Feb 2024	
Guayaquil, Ecuador		Computer Science Engineering	
<ul style="list-style-type: none"><li>• <b>Developed</b> a strong foundation in computer science and software engineering concepts, with practical applications.</li><li>• <b>Designed</b> efficient algorithms to solve complex problems and optimized their performance.</li><li>• <b>Explored</b> Machine Learning, AI, Data Science, and software engineering methodologies.</li><li>• <b>Acquired</b> hands-on experience with databases, network technologies, and software development processes.</li></ul>			
Volunteering			
TAWS		September 2021 - Present	
Sr Member		ESPOL	
<ul style="list-style-type: none"><li>• <b>Active member</b> of the TAWS Club, participating in workshops and events related to web and mobile development, as well as data science.</li><li>• <b>Mentored</b> applicants and supported the organization of technical talks and workshops.</li><li>• <b>Collaborated</b> in team-based projects and initiatives to promote tech knowledge within the community.</li></ul>			
Skills			
Computer Science		Web technologies	Data Science
Java, JavaScript, Python, Time Complexity, Space Complexity, Optimization, Git, Docker		Express, MySQL, MongoDB, Redis, Node.js, FastAPI, HTML, CSS, React, Next.js, Vue	Data Analysis, Data Visualization, Regression, Classification, Clustering, Neural Networks
Languages			
Spanish		English	
Native		B1	
Awards			
IEEE Xtreme 17.0		October 2023	
Cuenca winner			
<ul style="list-style-type: none"><li>• <b>Won</b> the IEEE Xtreme 17.0, an international competitive programming competition, by demonstrating exceptional algorithmic problem-solving skills.</li><li>• <b>Collaborated</b> effectively with teammates to develop efficient algorithms under time constraints.</li><li>• <b>Emphasized</b> optimization techniques and high-performance solutions to solve complex programming challenges.</li></ul>			
Certifications			
IBM Data Science Specialization	April 2025	Github Foundations	February 2025
Coursera		Github	
Certified Associate Python Programmer	January 2025		
Python Institute			
Profiles			
 <a href="#">ElPitagoras14</a>			
 <a href="#">Jonathan García</a>			