

Orlando Gerardo Juárez Cruz

Computer Systems Engineering Student

✉ [mail:juarezcruzog@gmail.com](mailto:juarezcruzog@gmail.com)

🌐 <https://juarezcruzog.mistercuervo.com/>

🌐 <https://www.linkedin.com/in/orlandogjc/>

Profile

Computer Systems Engineering student with strong mathematical reasoning and problem-solving skills in programming. Creative, analytical, and detail-oriented in designing efficient and scalable technological solutions.

Solid background in backend development, database design, and Internet of Things (IoT), with practical proficiency in FastAPI, Python, JavaScript, HTML5, CSS, and version control using Git/GitHub.

Hands-on experience developing microcontroller-based systems using PIC, Arduino, ESP32, and Raspberry Pi, supported by Linux system administration knowledge. Interested in computer graphics and 3D modeling.

Education

Instituto Tecnológico Superior de Apatzingán Bachelor's Degree in Computer Systems Engineering
2022–2026

Colegio de Bachilleres Plantel Apatzingán High School Diploma in Physical-Mathematical Sciences
(Robotics Focus) 2019–2022

Experience

Mr. Cuervo 3D — Founder Designer Jan 2024 – Present

- Designed artistic and industrial models using SolidWorks, Fusion 360, and Blender.
- Managed 3D printing production and maintenance using Bambu Lab hardware.
- Handled finances, logistics, and marketing through digital platforms.

YollMed — Full-Stack Developer Database Designer 2025

- Developed a medical appointment management system deployed with Docker.
- Designed a secure PostgreSQL database with user and role management.
- Built a REST API using Node.js and a modern frontend with Svelte.

Cuinix – Advisory System — Team Leader Backend Developer Innovatec 2025

- Designed the database using Supabase and implemented backend logic with FastAPI.
- Led the development team and system architecture.
- Awarded **2nd place in Human Health Services (Local Stage) — Innovatec 2025.**

NeuroFlow AI – WhatsApp Chatbot — AI Developer Innovatec 2025

- Implemented a vector database using ChromaDB for OCR-based responses.
- Contributed to technical documentation and project presentation.
- Awarded **2nd place in Electrical Electronics (Local Stage) — Innovatec 2025.**

Pacific Research Program (Programa Delfin) — Research Intern Jun 2025 – Jul 2025

- Selected participant in the **30th Pacific Scientific and Technological Research Summer Program**.
- Collaborated on the project *“Intruder Identification using Hard Biometrics and Automated Training”*.
- Conducted research in biometric security and automated systems.
- Presented results at the **International Virtual Congress of the Pacific Research Program**.

Skills

Programming: Python, Java, C, JavaScript, Bash **Backend:** FastAPI, REST APIs, Node.js, SwaggerUI
Web: HTML5, CSS, TailwindCSS, SvelteKit **Databases:** MySQL, PostgreSQL, Supabase, MongoDB, SQLite, ChromaDB **Systems Tools:** Linux (intermediate), Git/GitHub, Docker, Jira, Ansible **Hardware/IoT:** Arduino, ESP32, Raspberry Pi, PIC, 3D Printing **Cloud DevOps:** VPS, AWS, Azure, Docker, Terraform, Prometheus, Grafana

Soft Skills: Leadership, teamwork, effective communication, analytical thinking, problem-solving

Certifications

Google Cybersecurity (Coursera) 2025

- Tools of the Trade: Linux and SQL — July 2025
- Networks and Security — July 2025
- Foundations of Cybersecurity — July 2025
- Risk Management — July 2025
- Threats and Vulnerabilities — September 2025
- Detection and Response — November 2025

Google Project Management 2026

- Foundations of Project Management — March 2026

Laboratory Skills

Electronic circuit design and troubleshooting. Signal analysis using oscilloscope and multimeter. Robotics prototyping.

Languages

Spanish (Native) English (Intermediate)

Interests

Hackathons, embedded systems, AI automation, 3D printing, open-source technology.

References

Available upon request.