

JESUS OMAR GARCIA FALCON

Software Engineer | Systems Integration | Automation Specialist

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Website: <https://omargarcia.cloud/curriculum>

EXECUTIVE SUMMARY

Results-driven Full Stack Software Engineer focused on scalable solution design, enterprise automation, and systems integration. Strong experience with Python, Flutter, C#, SQL and Docker-based Linux deployments. Fast learner with proven ability to ramp up on emerging tools such as workflow automation (n8n), CI/CD, and service orchestration. Additional hands-on biomedical engineering background in preventive/corrective maintenance, troubleshooting and component-level repairs.

CORE COMPETENCIES

- Scalable architecture design aligned with business goals.
- Enterprise process automation to reduce manual workload and errors.
- Advanced SQL performance tuning (Firebird/Microsip).
- REST API integration and distributed services.
- Docker containerization and Linux server deployments (VPS).
- Cross-platform delivery with Flutter (Web/Mobile) and front-end with React/Next.js.
- Preventive/corrective maintenance workflows, documentation and traceability.

TECHNICAL SKILLS

- Python (Flask, automation), Dart/Flutter, C#/.NET, JavaScript, SQL.
- Docker / Docker Compose, Linux (Ubuntu Server), VPS deployments, Git/GitHub, basic CI/CD.
- React / Next.js, REST APIs, Web Scraping, OpenCV.
- n8n (workflow automation), Google AppSheet (rapid process digitization).
- Databases: Firebird, PostgreSQL, MySQL.

PROFESSIONAL EXPERIENCE

• Valkirias DroneWorks (2025) – Systems Developer & Integration Engineer

- Designed and deployed on-prem containerized solutions using Docker.
- Built Python backend automation tools and internal integrations.
- Implemented operational automations to standardize workflows and accelerate delivery.

- Contributed to enterprise technical certification and infrastructure integration.
- Integrated computer vision-based analysis tools.

- **Hacienda Juárez (2023–2024) – IT Manager & Software Developer**

- Developed enterprise software integrated with Firebird (Microsip).
- Tuned mission-critical SQL queries to improve response time and stability.
- Managed networking and Linux-based infrastructure for operational continuity.
- Automated inventory and administrative processes.

- **Pizza Klein (2019–2023) – Junior Software Developer / Technical Support**

- Built database synchronization systems in C# for multi-branch operations.
- Automated operational processes to reduce manual errors and time.
- Delivered end-to-end technical support and networking assistance.

- **Biomedical Engineer (Technical Experience) – Maintenance & Support**

- Performed preventive and corrective maintenance to ensure equipment uptime.
- Troubleshoot and repaired electronic boards at component level (testing & validation).
- Managed spare parts inventory, traceability and stock control.
- Produced maintenance logs, technical reports and standardized checklists.

EDUCATION

Mechanical & Electrical Engineering | UdeC

CERTIFICATIONS

- DJI FlightHub2 On-Premises – Technical certification (installation & configuration).
- React / Next.js – Routing fundamentals.