

DAVID TINAJERO

DevOps & Software Engineer | Cloud Infrastructure | Automation

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PROFESSIONAL SUMMARY

Software and systems engineer with six years of experience across software development, systems integration, and industrial automation. Combines backend development and Python automation with hands-on cloud deployment and application delivery. Built an event platform used at live events and supports integration of railway and industrial systems.

TECHNICAL SKILLS

Cloud & delivery: AWS, Azure, Docker, Kubernetes, Jenkins, Azure DevOps, Git, GitHub, Bitbucket

Development: Python, Flask, Java 17, Spring Boot, Angular, TypeScript, REST APIs, Kafka

Systems & data: Linux, Windows, MySQL, SQL Server, Oracle, Modbus, SCADA, HMI

Personal projects & practice: Terraform, GitHub Actions, Oracle Cloud Infrastructure

SELECTED PROJECT

QRACCESS | Independent project | Used at live events

- Built the application from scratch with an Angular frontend, a Python/Flask API, and MySQL, covering development, integrations, and deployment.
- Connected registration pages and CRM integrations with email and WhatsApp invitations, QR access validation, attendance records, and printed attendee identification.
- Deployed the application in a Docker container on an AWS server and managed the code in GitHub.

PROFESSIONAL EXPERIENCE

SENER MEXICO | Oct 2024 - Present

Senior Engineer | Mar 2026 - Present

Semi-Senior Engineer | Oct 2024 - Feb 2026

- Developed a Python Modbus client to query remote devices, process register values, and validate register maps, automating targeted checks across the railway system network.
- Lead validation of more than 1,000 signals per station, identifying faults and coordinating corrective actions to support system acceptance.
- Coordinate site acceptance testing for railway energy, control, and SCADA systems, working with teams of 6 to 10 and three to four participating companies.
- Developed software and database integrations for Linux and Windows environments; supported deployments, technical documentation, user training, and operational support.

PROFESSIONAL EXPERIENCE - CONTINUED

GRUPO SALINAS - BANCO AZTECA | May 2024 - Aug 2024

API Developer

- Designed and developed a Java 17/Spring Boot invoicing service for a target workload of approximately 20 million account-statement invoices per month, as part of replacing an external provider.
- Grouped records and improved processing functions, reducing batch runtime from approximately four hours to two in tests with data volumes equivalent to production.
- Integrated banking platforms and internal systems through REST APIs and Kafka, working with architects, database specialists, and a 10-member backend team.
- Supported code reviews and deployments to Linux, Docker, and Kubernetes testing environments.

EMUNAH RED SOLUTIONS | Nov 2022 - May 2024

Semi-Senior Software Developer

- Developed and maintained backend and frontend components of the company's main enterprise application, delivering features, fixes, and version releases.
- Coordinated CI/CD activities for backend and frontend applications using Jenkins, GitHub, Bitbucket, and Git, covering source control, builds, testing, and deployment.
- Worked in Scrum teams to analyze requirements, resolve production incidents, and review deliverables before release.

AMI ENERGY | Aug 2022 - Nov 2022

Programming and Software Engineer

- Replaced a nonfunctional HMI with software for measuring and controlling fuel-additive dosing during loading; developed and deployed the solution across 24 fuel terminals.
- Coordinated field installation, system validation, and technical training for field and operating teams.

INTEGRATIONS AND AUTOMATION HOH | Aug 2020 - Aug 2022

Project and Service Engineer

- Designed and implemented a control and management solution for gasoline-distribution processes, combining software, industrial automation, and field deployment.
- Improved PLC control logic and supervised deployment across five natural-gas stations in three cities, including commissioning, troubleshooting, and user training.

EDUCATION & CERTIFICATION

B.S. in Control and Automation Engineering

Instituto Politécnico Nacional (IPN), ESIME Zacatenco

Lean Six Sigma Black Belt | Council for Six Sigma Certification | 2021

LANGUAGES

Spanish: Native | **English:** Professional working proficiency | **French:** Basic