MARCO DOMÍNGUEZ

Mexico City | +52 55 12303107 | marcdomibe@gmail.com | linkedin | kainet.mx (R&D Portfolio)

PROFESSIONAL SUMMARY

Senior Network Engineer & Technical Training Developer with over 10 years of experience transforming complex Data Center infrastructure (Cisco ACI, Cloud) through NetDevOps and software automation. Proven expert in building intelligent ecosystems using a full-stack approach (Python, FastAPI, React). Passionate about the intersection of technology and accessibility; Founder of Kainet, a personal R&D lab where I am architecting "Kaido", an inclusive, gamified learning platform prototype designed to democratize technical knowledge via AI. Currently pursuing a Master's in Engineering Management to further enhance strategic leadership in technical and educational innovation.

Core Competencies:

- **Instructional Design & Educational Innovation:** Extensive experience simplifying complex technical concepts for diverse audiences through hands-on workshops. Currently developing "Kaido" (R&D prototype phase), an AI-driven platform focused on inclusive education and gamification, demonstrating the ability to build accessible learning tools that adapt to different user needs.
- **Infrastructure Automation & Tooling:** Architecting and developing full-stack applications (Python, React, Docker) to automate network workflows, effectively reducing manual error by up to 40% and creating scalable lab environments for engineering training.
- **AI Integration & NetDevOps:** Implementing AI-driven assistants (Azure AI Foundry, LLMs) and leveraging modern DevOps practices to enhance operational efficiency, reduce troubleshooting time, and provide predictive insights.
- **Advanced** Data Center Networking: Deep expertise in enterprise and data center technologies, including Cisco ACI (Fabric Design), DNAC, F5 Load Balancers, and multi-vendor firewall environments.

WORK EXPERIENCE

Senior Network Engineer, Solera Holdings   **2021 - Present**

- Technical Training Leadership: Designed and delivered advanced hands-on workshops on Applied AI & NetDevOps to 30+ researchers and engineers, bridging the skills gap in automation adoption and fostering a culture of innovation .
- Infrastructure Automation & Tooling: Architected and developed a full-stack Certificate Management Tool (Python, FastAPI, React, Docker) to automate SSL/TLS lifecycles. Reduced manual workloads by 40% and served as a mentor for the team on modern software development practices .
- AI Integration: Engineered conversational AI assistants using Azure AI Foundry, integrating intelligent agents into internal processes to provide real-time, automated technical support for engineering teams .
- Data Center Modernization: Spearheaded the technical design and migration of legacy data centers to a Cisco ACI fabric, acting as the Subject Matter Expert (SME) to ensure seamless integration and increasing infrastructure efficiency by 25% .

Technical Consulting Engineer (DNAC), Cisco Systems, Inc.   **2019 - 2021**

- Lab Environment Design: Built and maintained complex Cisco DNA lab environments to replicate customer scenarios, accelerating the team's problem-solving speed by 20% (Directly relevant to creating training labs) .
- Engineering Onboarding & Training: Conducted in-depth technical training sessions on ACI and DNAC for over 20 new engineers, achieving a 4.5/5 satisfaction rating and significantly reducing ramp-up time .
- Workflow Automation: Led an internal initiative to automate TAC engineer backlogs, optimizing case resolution workflows and enhancing team productivity by 15% .

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Customer Engineer Support (ACI), Cisco Systems, Inc   **2016 - 2019**

- Customer Enablement: Supported ACI adoption for hundreds of global clients, going beyond troubleshooting to provide personalized technical training and knowledge transfer, reducing implementation times by 20% .
- Critical Issue Resolution: Resolved complex ACI network incidents with a 95% satisfaction rate, collaborating closely with product developers to identify software defects and improve system reliability.

TECHNICAL EDUCATION & DEVELOPMENT PROJECTS

Founder & Lead Developer │ Kainet (Project: Kaido)

- **R&D Initiative:** Established a personal innovation lab to experiment with the intersection of AI and education. Currently architecting "Kaido" (R&D Prototype), an inclusive Learning Management System designed to democratize technical knowledge.
- **Full-Stack Engineering:** Built the platform using a modern stack (Python/FastAPI, React, Docker) to create interactive, gamified learning experiences, demonstrating the ability to develop complex training tools from scratch.
- **AI Integration:** Implemented AI agents using Azure AI Foundry and LLMs to provide real-time student feedback and automate curriculum content generation.

EDUCATION

Master's in Engineering Management Tecnológico de Monterrey   **2024 - Present**

- Focus on strategic leadership, bridging technical execution with business outcomes.

Bachelor's in Computer Engineering Universidad Autónoma Metropolitana   **2010 - 2015**

TECHNICAL SKILLS

- **Instructional Design:** Technical Curriculum Development, Gamification Strategies, Lab Environment Setup, Technical Mentoring, Workshop Facilitation.
- **Automation & Development:** Python, FastAPI, React, JavaScript, Docker, Kubernetes (Basic), Git, CI/CD, NetDevOps.
- **AI & Cloud:** GitHub Copilot, Azure AI Foundry, LLM Integration, Chatbot Development (RAG), AWS Solutions Architecture.
- **Networking & Security:** Cisco ACI & DNA, F5 BIG-IP, VMware, Palo Alto & Fortigate Firewalls, Data Center Architecture.
- **Project Management:** Strategic Planning, Agile Methodologies, Cross-functional Leadership.

CERTIFICATIONS & CREDENTIALS

- **GitHub Copilot Certified (GH-300) │** Microsoft (2025)
- **Automate AI Solutions on Cisco Infrastructure │** Cisco (2025)
- **Fundamentals of Agile Project Management │** PMI (2025)
- **Lean Six Sigma White Belt │** International Six Sigma Institute (2025)
- **Professional Skills: Digital Communication │** Arizona State University (2025)
- **Cisco Certified DevNet Associate │** Cisco
- **Cisco Certified Specialist:** Enterprise Core (CCS-ECore) & Data Center Core (CCS-DCCore)
- **Cisco Certified Interviewer**

LANGUAGES

- **Spanish** (Native)
- **English** (Advanced / Professional Proficiency)