

Fabian Jimenez

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SUMMARY

Visionary technology leader and entrepreneur with proven expertise in **High-Performance Computing (HPC)**, **software development**, and **molecular simulation**. As CTO and Co-Founder of NFI Innovations and former VP of Research and Technology at Alluriam Healthcare, I directed cross-functional teams, delivered scalable health and fintech solutions, and advanced biomedical simulations using **GROMACS**. Skilled in **innovation**, **system architecture**, **DevOps**, and **Agile methodologies**, I excel at building robust systems, mentoring teams, and bridging research with commercial applications. Recognized for adaptability, problem-solving, and delivering results in fast-paced environments.

SKILLS

- **High Performance Computing (HPC)** – Cluster management, parallel processing, GPU acceleration
- **Software Development & Lifecycle Management** – Agile, SDLC, scalable architectures
- **Molecular Simulation** – GROMACS, computational modeling, biomedical research
- **Systems Engineering & DevOps** – Linux administration, automation, CI/CD
- **Project Management Tools** – JIRA, cross-functional team leadership
- **Multilingual Communication** – English (B2), Italian (B1), Spanish (C2)

EDUCATION

Andalucia University, Spain	Jan 2023
Master of Science in Molecular Simulation	GPA: 3.12 / 4.0
Universidad Técnica del Norte, Ibarra, Ecuador	Jan 2005
Bachelor of Science in Computer Systems Engineering	GPA: 3.03 / 4.0

EXPERIENCE

Co-Founder & Chief Technology Officer (CTO) <i>NF Innovations, Washington, USA</i>	Jan 2024 — Present
• Spearheaded the development of health and fintech solutions , driving business growth and innovation.	
• Defined system architecture, DevOps, and R&D initiatives to build scalable, secure, high-performance platforms.	
• Built and mentored cross-functional teams, fostering collaboration and delivering products with measurable impact.	
Vice President of Research and Technology <i>Alluriam Healthcare, Arizona, USA</i>	Jan 2020 — Dec 2023
• Directed multidisciplinary teams in software engineering, biomedical research, and product development, leading to a 25% increase in operational efficiency .	
• Designed and optimized biomedical simulations using GROMACS and HPC clusters , advancing research outcomes.	
• Enhanced client satisfaction through innovative R&D initiatives and robust technology solutions.	
Director / Chief of Technological Operations & HPC Services (Progressive Roles) <i>Yachay State Company, Urcuqui, Ecuador</i>	Jan 2014 — Dec 2019
• Advanced through multiple leadership roles, from Systems Analyst to Director of Technological Operations & High-Performance Computing .	
• Managed and optimized complex HPC clusters supporting 6,000+ daily core jobs and 1,000+ users , consistently ensuring 98%+ system availability.	
• Oversaw critical spectrum cluster operations, advanced load-sharing facilities, and major IT infrastructure upgrades that improved uptime from 92% to 99.8%.	
Creator, Analyst, Designer, & Programmer – Electronic Health Record (EHR) <i>San Andres Hospital, Santo Domingo De Los Colorados, Ecuador</i>	Jan 2009 — Jul 2012
• Designed and successfully implemented a full-scale, secure EHR system utilized by 85,000+ patients and 120+ medical staff across two major healthcare centers.	
• Improved healthcare delivery through digital transformation and scalable patient data management.	

PUBLICATIONS

- **Natural Inhibitors Against SARS-CoV-2** – Simulated natural compounds to identify antiviral candidates.
- **IBM Power 8 Benchmarking** – HPC optimization for data-intensive applications.
- **Graph Enumeration with Parallel Processing** – Record-breaking performance through parallel algorithms.
- **Contact Angle Simulations** – Advanced modeling of wetting phenomena using molecular dynamics.

REFERENCES

- Steve Markman, PhD – CTO, Alluriam Healthcare smarkman@me.com | +1 (408) 438-3516
- Ricardo Silva, PhD – Regional Director for Latin America & the Caribbean, Premier Medical (USA) rjsilvab@gmail.com | +1 (321) 337-1120