

ALBERTO FERRER

Linux Engineer & AI Architect



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Querétaro, México

Personal Information

Nationality	Argentina
Birth Place	Puerto San Julián, Santa Cruz, Argentina
Current Residence	Zapopan, Jalisco, México (13 years residing)
Immigration Status	<input checked="" type="checkbox"/> Mexican Permanent Visa
Available for Relocation	<input checked="" type="checkbox"/> Yes

Professional Profile

Results-oriented IT Solutions professional with solid background in project management, regulatory compliance and process improvement. Excellent communication skills. Experience working in teams with several companies to develop and deploy technical solutions. Demonstrated success in analyzing areas to implement improvements and achievement of project results that contribute to the overall objectives of the company.

AI & Machine Learning Expertise

AI Frameworks & Inference

- ▶ TensorFlow / PyTorch
- ▶ NVIDIA Triton Server
- ▶ Hugging Face Transformers
- ▶ NVIDIA TensorRT / NIM
- ▶ vLLM / SGLang
- ▶ OpenAI APIs / Claude APIs
- ▶ llama.cpp / Unsloth
- ▶ OpenWebUI

Vector Databases & RAG

- ▶ PostgreSQL + pgvector
- ▶ FAISS
- ▶ ChromaDB
- ▶ Elasticsearch Vector
- ▶ Milvus / Qdrant
- ▶ LangChain / LlamaIndex

Agentic AI & Development

- ▶ CrewAI Framework
- ▶ Python PoCs
- ▶ LangGraph React Agents
- ▶ Document Extraction with VLMs
- ▶ Agno Agents
- ▶ AI System Integrations
- ▶ FastAPI

Model Development & Training

- ▶ Fine-tuning & Continual Pretraining
 - ▶ GPT/Transformer Model Creation
 - ▶ Classification Model
- Development
 - ▶ MLflow / Kubeflow
 - ▶ Ray / Apache Airflow
 - ▶ Custom Model Publishing

AI Model Publishing & Contributions:

- ✓ **Hugging Face Profile:** <https://huggingface.co/BarraHome>
- ✓ Published custom models and datasets on Hugging Face Hub
- ✓ Developed PoC applications with FastAPI and Python
- ✓ Created document extraction systems using Vision Language Models (VLMs)
- ✓ Built agentic AI solutions and multi-agent systems

Technical Skills

Systems & Infrastructure

- ▶ Systems Administration
- ▶ Database Management
- ▶ Kernels Administration
- ▶ Technical Management
- ▶ Systems Support
- ▶ Security
- ▶ Server
- ▶ System Hardening

Development & Automation

- ▶ CI/SRE
- ▶ Process Generation
- ▶ Process Documentation
- ▶ Process Auditing
- ▶ RPM/DEB
- ▶ NIX* Distributions Creation
- ▶ Multiple Linux Languages

Web Technologies

- ▶ Advanced Clusters
- ▶ LAMP/LEMP
- ▶ MySQL HA
- ▶ Nginx Clusters
- ▶ Apache Optimization
- ▶ PHP-FPM
- ▶ SSL/TLS

Cloud & Virtualization

- ▶ VMware
- ▶ AWS
- ▶ Cloud
- ▶ Kubernetes
- ▶ Microsoft Azure
- ▶ Docker
- ▶ Amazon
- ▶ KVM/vSphere

Professional Experience

Company & Position	Period	Key Responsibilities & Achievements
<div><div><div><div><div>RACKSPACE</div><div>TECHNOLOGY</div></div><div><div>Product Engineer/AI Architect</div><div>AI Team Leader</div><div>Newly formed AI division</div></div></div></div></div>	2024 – Present	<ul style="list-style-type: none">✓ Lead Engineer for Run:ai and their products (SME)✓ Lead Engineer for NVIDIA and their AI platform✓ Lead Engineer for Applied AI PoC program✓ Prototyping of Applications and integrations✓ Customer configuration analysis (SWOT)✓ Vector Databases implementation✓ Embeddings and ML workflows✓ DELL Hardware implementation for NVIDIA✓ NVIDIA Triton Server, TensorRT, NIM✓ Kubernetes for AI (GPU & others)✓ Docker images for AI related tools

Company & Position

Period

Key Responsibilities & Achievements

**RACKSPACE
TECHNOLOGY**

Linux Engineer IV (Sr
Escalations Team)

2022 –
2024

- ✓ Lead Engineer & Trainer at Escalations Team
- ✓ Technical support ownership for customer base
- ✓ Advanced troubleshooting and OS-level issue resolution
- ✓ Customer loyalty through exceptional service delivery
- ✓ Issue escalation management and resolution
- ✓ Training and mentoring of Rackers
- ✓ Collaboration with CSM, Account Managers, and Incident Management
- ✓ Security remediation via Crowdstrike with malware analysis
- ✓ Ansible automation applications development

Custom Tools Developed:

- ✓ **MRMF:** Python-based Malware Scanner for LAMP Stack
- ✓ **Scanware:** Rust Application Scanner with plugins
- ✓ **Traffic Analyzer:** Python 3 port with enhanced features

Company & Position	Period	Key Responsibilities & Achievements
RACKSPACE TECHNOLOGY Linux Customer Success Enterprise Support Engineer Career Progression: L1 → L2 → L3 → Linux Engineer	2020 – 2022	<ul style="list-style-type: none"> ✓ Full Stack Linux System Administration ✓ Customized support for Enterprise Level accounts ✓ Account technical expert on Rackspace side ✓ Technical point of contact and liaison ✓ Infrastructure documentation preparation ✓ Project assistance based on customer needs ✓ Infrastructure recommendations and consultancy ✓ Continuous infrastructure supervision and monitoring ✓ Proactive issue identification and resolution
ALM GROUP Support Manager	2017 (8 months)	<ul style="list-style-type: none"> ✓ Company support process management ✓ Technological implementations ✓ Documentation writing and maintenance ✓ Software architecture design
DIVALIA S.A DE C.V Founder	2010 – 2015	<ul style="list-style-type: none"> ✓ Company founding and management ✓ Software development and programming

Company & Position	Period	Key Responsibilities & Achievements
		<ul style="list-style-type: none"> ✓ Server architecture design and implementation ✓ Software architecture and system design

Open Source & Personal Projects

Project	Period	Description
EMANON LINUX Creator / Maintainer	2010 – 2015	<ul style="list-style-type: none"> ✓ Linux distribution development based on IPCop & RedHat Linux ✓ CentOS variant implementation ✓ Wikipedia documented project
RHEL TO CENTOS REPOS Maintainer	2009 – Present	<ul style="list-style-type: none"> ✓ RPM packages updating and maintenance ✓ Private repositories creation and management ✓ SRPM Trees upgrading and updating

Project

Period

Description

INSTRUCTOR / BLOGGER

Technical Writer

1999 –
Present

- ✓ Technical articles writing (barrahome.org)
- ✓ Community support on Freenode
- ✓ Multiple Linux distributions support
- ✓ Documentation and knowledge sharing

Technical Expertise

Operating Systems

- ▶ Linux (RedHat, CentOS, Debian, Ubuntu)
- ▶ Windows
- ▶ Server (2003-2012 R2)
- ▶ Unix (Solaris)
- ▶ FreeBSD

Programming Languages

- ▶ Python (Basic/Medium)
- ▶ Perl (Basic/Medium)
- ▶ Bash (Basic/Medium)
- ▶ PHP (Basic/Medium)
- ▶ C/C++ (Basic/Medium)
- ▶ Java (Basic/Medium)
- ▶ PowerShell (Basic/Medium)
- ▶ Rust (Basic/Medium)

Networking & Security

- ▶ Cisco Routers and Switches
- ▶ LAN/WAN Configuration
- ▶ VPN Implementation
- ▶ TCP/IP Protocol Suite
- ▶ Firewalls Configuration
- ▶ Intrusion Detection Systems

Web & Database Technologies

- ▶ Apache/ Nginx (10+ years) Optimization
- ▶ cPanel/WHM (10+ years)
- ▶ MySQL/ MariaDB Clustering
- ▶ SSL/TLS Implementation
- ▶ DNS Management
- ▶ PHP-FPM

Notable Contributions

- ✓ **RedHat Security Reports:** Contributed several kernel failure reports to RedHat
- ✓ **Bugzilla Contributions:** [Bug #455833](#)
- ✓ **Linux Security Forum:** Active contributor to gmane.linux.lfs.security
- ✓ **Community Support:** 25+ years providing Linux support and documentation

