

# Chakib Benziane

AI/LLM Ops | Backend Developer | Systems Programmer

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## Profile

A seasoned UNIX systems and network programmer specializing in AI/LLM operations and backend development. Expert in building high-performance CLI and server applications using Go, Rust, and Python, with a particular emphasis on on-premise AI deployment, air-gapped environments, and self-hosted infrastructure. A dedicated open-source contributor with extensive experience collaborating within distributed, global teams. With over 15 years of experience across SysAdmin/DevOps, IT Architecture, OpSec, and Machine Learning, I have a proven track record of delivering value to a diverse clientele, ranging from global enterprises to agile startups. My versatility in both backend and frontend development, combined with a strong problem-solving mindset, allows me to excel in the early stages of fast-paced, high-impact projects. Passionate about architecting robust software stacks and prototyping MVPs with cutting-edge or specialized technologies. Current focus areas include LLM fine-tuning, RAG pipeline optimization, diffusion models, and the development of tooling for secure, offline AI workflows.

## Experience

### Backend / Systems Programmer

Dec 2018 - Present

Independent Contractor • Remote Only (Spain)

Available as freelance and contract work: backend / systems programmer.

- Engineered robust backend systems utilizing Go, Rust, and Python stacks
- Architected scalable software stacks tailored to specific business requirements
- Provided expert AI/LLM consulting, focusing on on-premise deployments, model fine-tuning, and custom tooling
- Contributed as an early member of the LangChain open-source community, implementing the SearxNG tool and various core features
- Designed and launched Gosuki, a high-performance, multi-browser bookmark management system

## **Director of UX**

Jan 2019 - Dec 2019

Confidential Client • Remote

Product management and UX design consulting.

- Led product management initiatives and strategic planning
- Executed comprehensive UX design and user research to optimize product usability
- Facilitated stakeholder communication and precise requirement gathering

## **UI designer / developer**

Dec 2014 - Dec 2018

Independent Contractor • Berlin (Germany)

Worked on various projects as a UI designer and full stack developer.

- Developed rapid prototypes and MVPs for early-stage startups, accelerating time-to-market
- Engineered solutions for cryptocurrency and blockchain-based projects
- Managed and coordinated cross-functional development teams

## **Full stack developer**

Dec 2012 - Dec 2014

Freelance • Paris (France)

Created and deployed various web and mobile applications for clients.

- Authored detailed technical specifications and architected application designs
- Developed and deployed full-stack web and mobile applications
- Managed end-to-end deployment and long-term system maintenance

## **CTO / Full stack developer**

Dec 2012 - Dec 2014

BoxIs (Startup) • Paris (France)

R&D for a DNS based security solution.

- Developed a custom DNS server utilizing Twisted Python for high-concurrency networking
- Implemented Windows Filtering Platform (WFP) drivers using C#
- Managed infrastructure deployment and system stability
- Developed full-stack applications using the Django framework
- Established CI/CD pipelines using uWSGI and Nginx

## **Systems Engineer / DevOps**

Sep 2011 - Dec 2012

Smartjog • Paris (France)

Research & Development on virtualization and distributed file systems.

- Served as SRE for a large-scale virtualization infrastructure, ensuring high availability
- Conducted R&D on distributed file systems, including Ceph, Sheepfs, and Glusterfs
- Researched and implemented virtualization solutions using KVM, Libvirt, and QEMU
- Co-developed a VM management tool built on Libvirt
- Engineered a fully compliant LDAP PGP key server using Python

## **SRE / Networking / DevOps**

Sep 2009 - Sep 2011

Bocal (Epitech School) • Paris (France)

As a part time internship at my school I was part of a team that managed a large scale infrastructure for the school.

- Managed network and systems administration for a campus of 1,000+ students
- Engineered a custom dual-boot system to support diverse student requirements
- Developed an automated Windows deployment system based on Sysprep and KMS
- Created a custom Linux deployment pipeline utilizing PXE and Filezilla

## **Projects**

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### **Early LangChain Open Source Contributor**

Feb 2023

- Implemented the SearxNG tool, which has since been integrated into numerous downstream AI frameworks
- Contributed core features, performance enhancements, and critical bug fixes during the project's early stages

### **Other Open Source Contributions**

Jun 2012

- Contributed to a wide array of open-source projects, with a recent focus on the AI/LLM ecosystem, including LocalAI, aichat, StableDiffusion, ChromaDB, and PySyft

### **Instrukt: Terminal UI AI environment for LLM agents (Sole Developer)**

May 2025

- Enabled natural language instruction for AI agents
- Facilitated the development of specialized agents equipped with custom toolsets
- Implemented automated scanning and indexing of data sources to power RAG-based question-answering

### **Gosuki: Blazing fast, multi-browser, plug-free, bookmark manager. (Sole Developer)**

Jun 2026

A blazing fast, multi-browser, plug-free, bookmark manager.

- Eliminated the need for browser extensions through innovative integration

- Supports all major browsers and multiple profiles per browser in real-time
- Provides flexible data portability with multiple import and export formats
- Implemented multi-device synchronization and permanent archival of web links

## **PSWatch** Jul 2025

A system process watcher and task scheduler with custom matching rules.

- Provides real-time process monitoring driven by customizable matching rules
- Integrates task scheduling and system automation

## **HugoBot** Feb 2018

Content scraper and aggregator bot for Hugo data-driven websites.

- Automates content scraping and aggregation for data-driven websites
- Generates optimized data outputs compatible with the Hugo static site generator

## **GUM** Apr 2027

Task and unit manager micro library.

- Provides a minimalist framework for task management and orchestration

## **switch-monitor-source-ddcci** Nov 2018

Script to switch monitor source using DDCCI protocol.

- Implemented the DDCCI protocol for hardware-level monitor control
- Automates the switching of monitor input sources

## **codegpt-ng.nvim** May 2026

Lightweight AI Neovim plugin connecting with backends like Ollama and OpenAI.

- Integrates AI-powered code completion and assistance directly into Neovim
- Supports a wide range of backends, including Ollama and OpenAI

## **Other Projects** Jan 2024

Additional open source projects and contributions.

- Curated 'Awesome Explorables,' a comprehensive list of interactive, explorable explanations
- Developed 'aichat-ng,' an enhanced fork of aichat featuring advanced capabilities, available as an AUR package
- Created 'tinyssh-initramfs,' a minimal SSH-enabled initramfs for secure emergency system access

# Education

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## Bachelor in Information Technology

2009 - 2011

Epitech School of IT Engineering (Paris)

Relevant Coursework: C, C++, Unix, Networks, Security, Web, Databases, Software Design, Project Management

## Bachelor in Mathematics & Computer Science

2007 - 2009

Université Paris 6

# Certifications

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## Udacity Deep Learning Nanodegree

Sep 2017

Udacity

# Volunteer Work

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## Teacher & Helper

Nov 2007 - Nov 2008

Ubuntu France

- Participated in public events to advocate Linux and open-source software.
- Provided free support to new Linux users.

# Skills

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## AI/LLM Ops

On-premise LLM deployment • vLLM  
• Llama.cpp • LocalAI •  
StableDiffusion • ComfyUI • Open  
WebUI • ChromaDB • RAG •  
N8N/LocalAGI • llama-swap •  
kokoro-tts • MCP servers • End-to-  
end LLM lifecycle management •  
LLM observability and custom proxy  
pipeline development

## Machine Learning & AI

LLMs • Deep Learning • PyTorch •  
Langchain • TensorFlow • llama.cpp •  
embedding/reranking • diffusion  
models

## Backend Dev / Systems

Go • Python • Rust • C • Javascript •  
Bash

## DevOps

Docker • Kubernetes • Podman •  
Complex cluster and network

## Linux

Debian • iptables • systemd/SysVinit  
• pam • Kernel optimization and

## Networking

Caddy • iptables/nftables • overlay  
networks • Secure, isolated container

topology design • overlay networks • firewalls • Development of custom CLI tools and system daemons • Expert troubleshooting skills • Upstream software debugging and patching

tuning • filesystem: I/O performance optimization • Advanced filesystem architecture, partitioning, and redundancy • Boot/Grub/UEFI

networking architectures • SRE practices

## Security

SSO/LDAP • API key management • OpSec • air-gap

## Neovim Ecosystem

Lua • codegpt-ng.nvim • Neovim development

## Bitcoin and Lightning Network

Bitcoin • Lightning Network • Bitcoin Core • LND • C-Lightning

## Other

DIY Electronics • Hobby embedded programming • Arduino, ARM, ESP

# Languages

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English	Fluent	French	Native speaker	Arabic	Native speaker
Spanish	B2				

# Interests

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## Compilers & Interpreters

programming languages

## AI/LLMs & Deep Learning

## Bitcoin & Lightning Network

## Electronics (Arduino, Raspberry Pi)