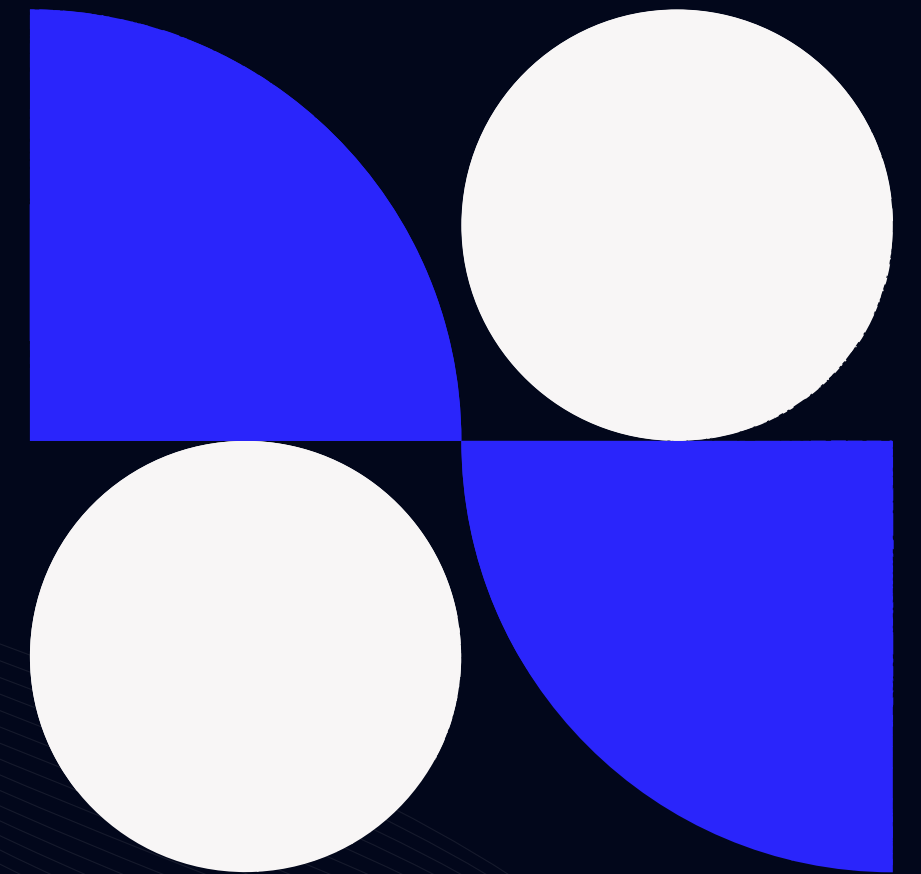
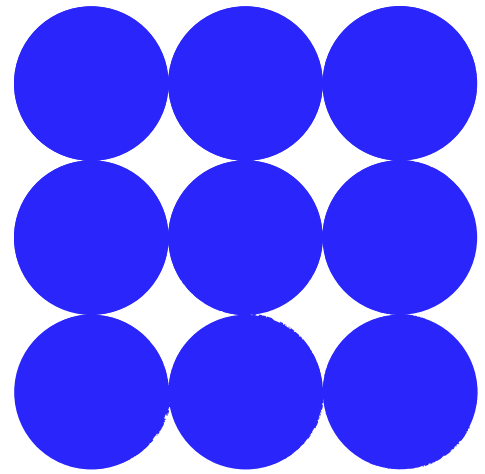




PFE BOOK

2025 - 2026





What is Ox4labs?

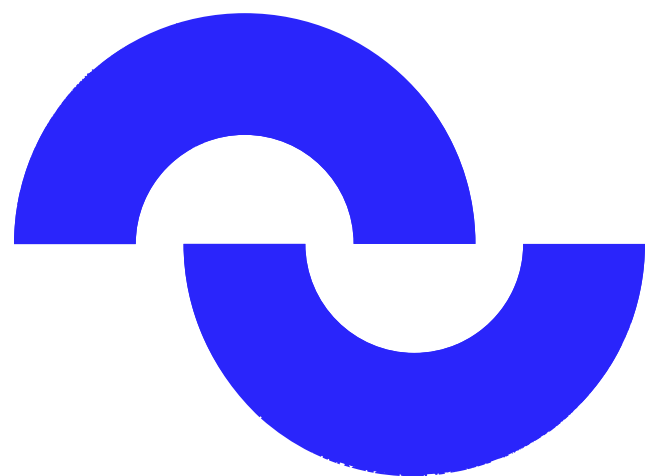
The AI-First Innovation Studio Building the Next Generation of Intelligent Products.

OX4Labs is an AI-first innovation studio based in Lac 2, Tunis, working with startups, enterprises, and public institutions across MENA, Europe, and Africa.

We build intelligent digital platforms, AI copilots, automation engines, and next-gen software products.

**We operate like a high-performance AI lab:
fast, collaborative, precise, and relentlessly impact-driven.**

OX4Labs blends AI engineering, product design, software development, and innovation strategy to turn raw ideas into real, functional, high-quality products.



Life at OX4Labs

A place where ambitious people learn, build, and grow.

Life at **OX4Labs** is dynamic and hands-on. You learn by doing, by testing, by building, by experimenting — never by observing.

OWNERSHIP

You lead your work from idea to execution.

CLARITY

Clean thinking, clean communication, clean work.

SPEED

Move fast, iterate, improve.

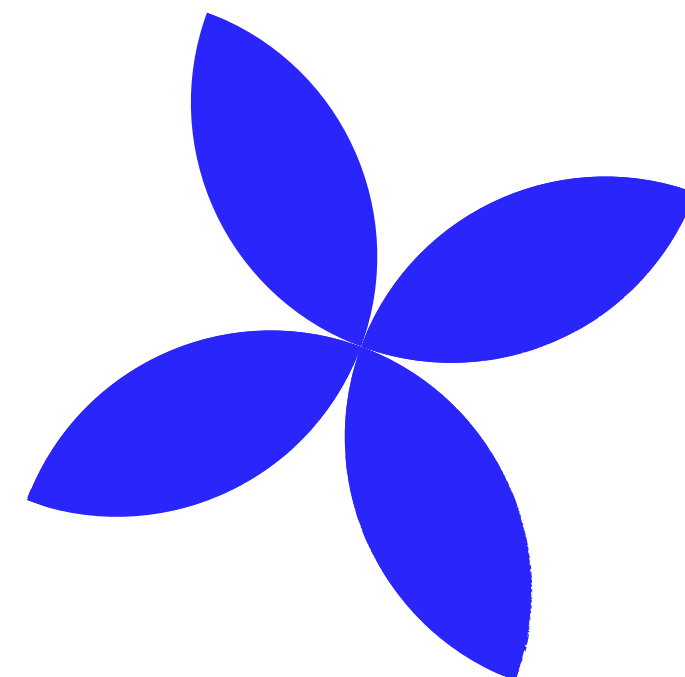
CRAFTSMANSHIP

Quality matters—always.

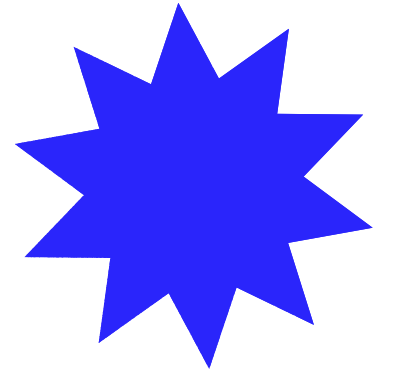
CURIOSITY

Learn tools, explore ideas, ask questions, go deep.

Interns work directly with engineers, designers, strategists, and the CEO.
Your work has real users. Real impact. Real meaning.



What We Do



◆ **AI Product Development**

AI copilots, RAG engines, agent systems, workflow automation, enterprise AI assistants.

◆ **Full-Stack Engineering**

Dashboards, web apps, LMS systems, internal tools, and large-scale digital platforms.

◆ **Intelligent Automation**

Operational AI, workflow automation, data extraction, reporting engines.

◆ **Innovation & AI Strategy**

Helping companies plan, adopt, and scale AI across departments and services.

Available Tracks



**BUSINESS, STRATEGY &
OPERATIONS TRACKS**



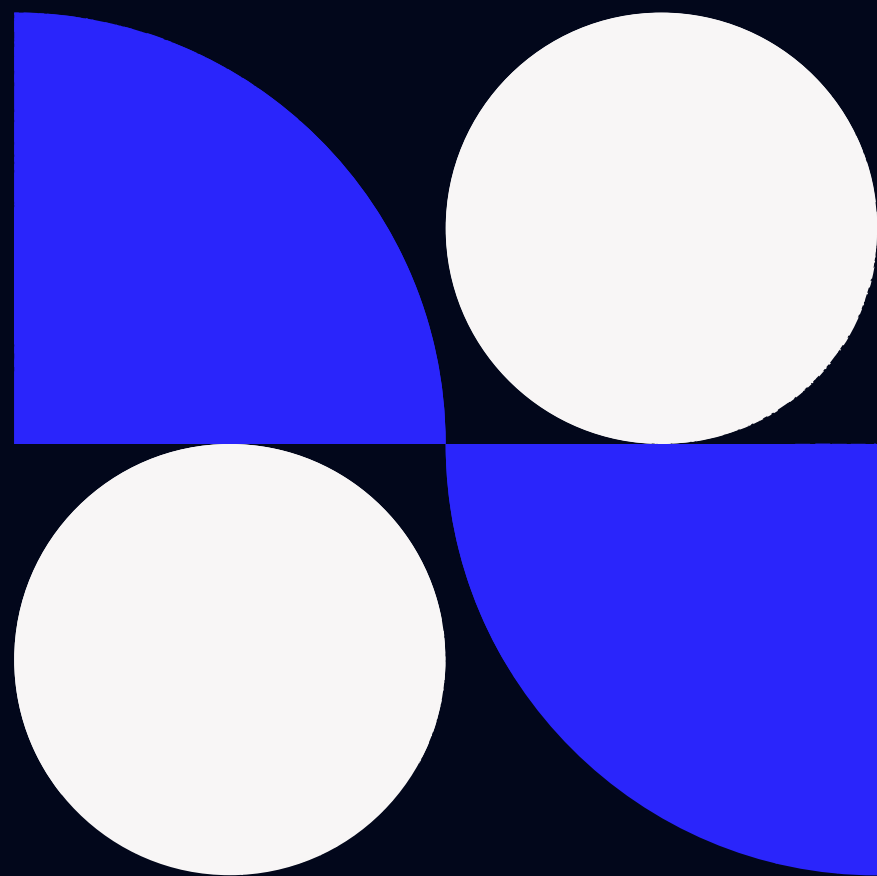
**BRAND, DESIGN &
MARKETING TRACK**



**SOFTWARE ENGINEERING
TRACKS**

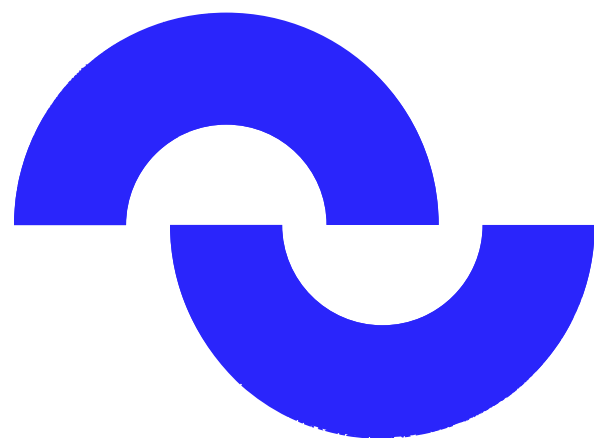


**AI ENGINEERING
TRACKS**



BUSINESS, STRATEGY & OPERATIONS TRACKS

Positions available: 3



Position: Business Development Intern

Track: BUSINESS, STRATEGY & OPERATIONS TRACKS

Duration: 4-6 months

◆ **What You Will Do**

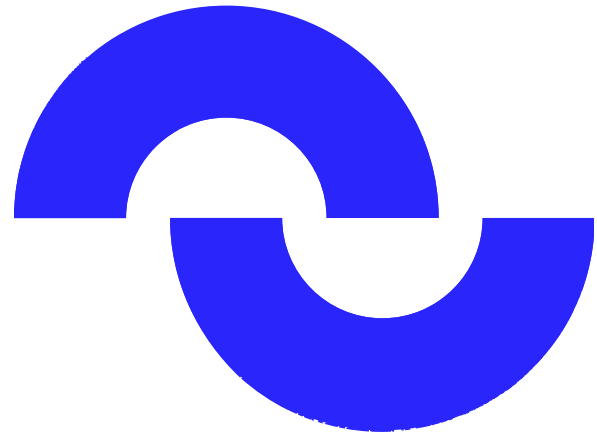
You will support the company's growth by identifying leads, conducting strategic outreach, preparing proposals, evaluating markets, and maintaining CRM pipelines. You will collaborate closely with the CEO to explore new opportunities in GCC, Africa, and Europe, helping OX4Labs expand its reach.

◆ **Expected Deliverables**

- Updated CRM pipeline
- Outreach campaigns
- Proposal drafts

◆ **Required Skills**

- Communication and persuasion
- Market analysis
- Professional writing
- Interest in sales & international markets



Position: Market Research & Business Intelligence

Track: BUSINESS, STRATEGY & OPERATIONS TRACKS

Duration: 4-6 months

◆ **What You Will Do**

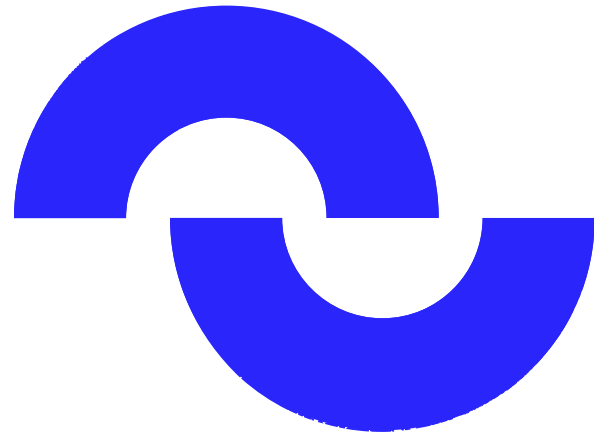
You will research industries such as AI, healthtech, fintech, govtech, telecom, and edtech to build comparative analyses, trend reports, and strategic insights. You will support business decisions by mapping markets, evaluating competitors, identifying opportunities, and preparing structured research material used in proposals and internal strategy.

◆ **Expected Deliverables**

- Market landscape reports
- Competitor benchmarks
- Trend and opportunity analyses

◆ **Required Skills**

- Strong research capabilities
- Analytical mindset
- Writing and synthesis
- Curiosity for technology sectors



Position: Strategic Operations & Executive Support (CEO Office)

Track: BUSINESS, STRATEGY & OPERATIONS TRACKS

Duration: 4-6 months

◆ **What You Will Do**

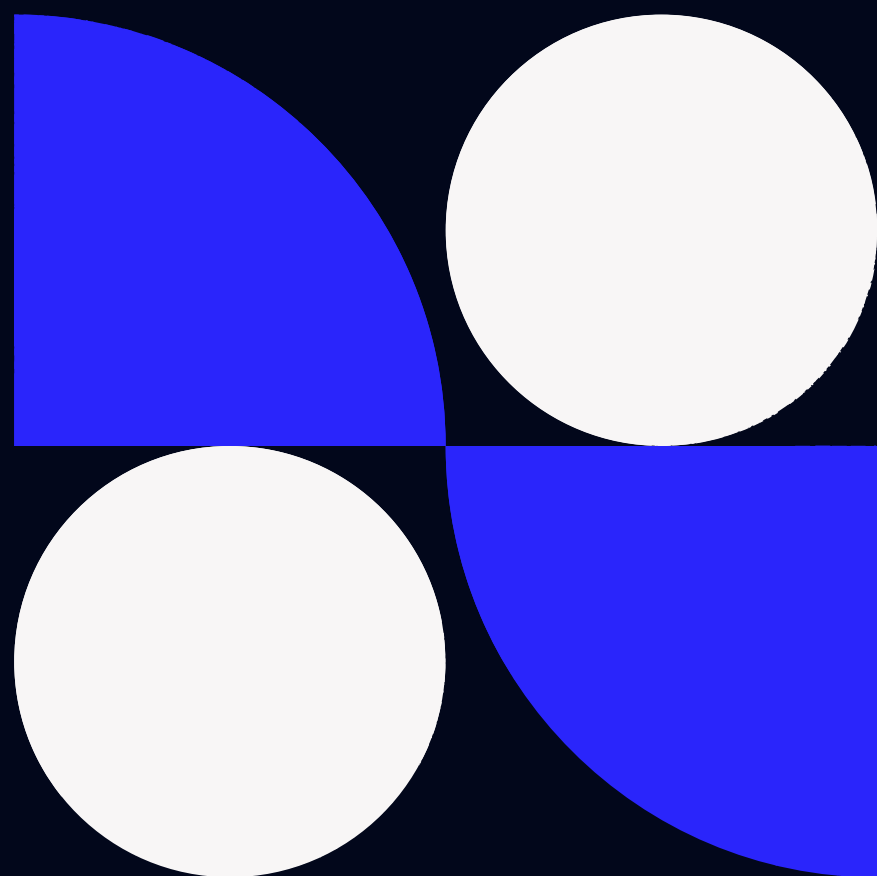
You will work directly with the CEO to organize strategic priorities, prepare meeting briefs, structure discussions, synthesize information, and maintain an execution rhythm across multiple projects. You will assist in coordinating teams, managing follow-ups, mapping decisions, and helping the CEO keep a clear, organized view of all running initiatives.

◆ **Expected Deliverables**

- Weekly CEO briefs
- Meeting summaries & follow-up trackers
- Strategy notes & decision-support documents

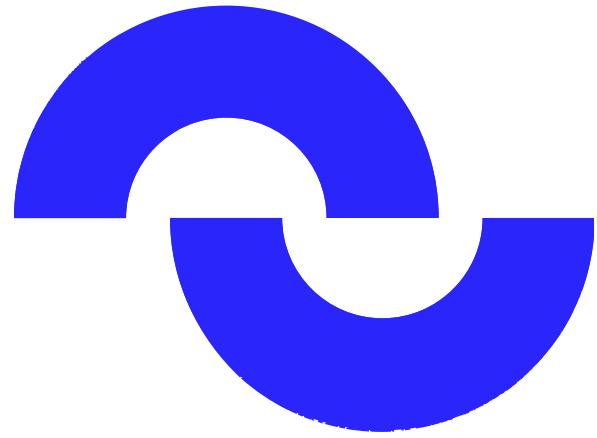
◆ **Required Skills**

- Strong analytical thinking
- Excellent written communication
- High discretion & professionalism
- Ability to structure complex information



BRAND, DESIGN & MARKETING TRACK

Positions available: 3



Position: Brand & Social Marketing Intern

Track: BRAND, DESIGN & MARKETING TRACK

Duration: 4-6 months

◆ **What You Will Do**

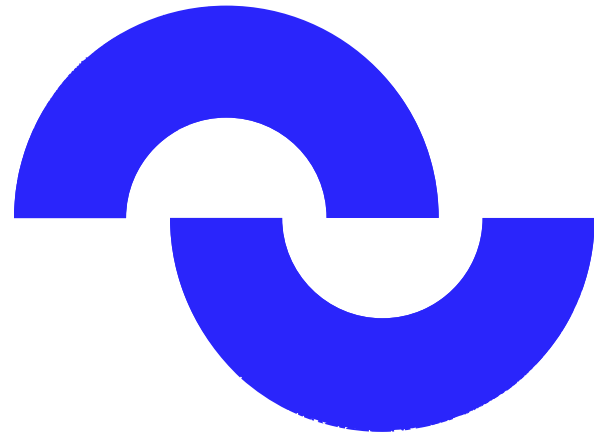
You will create branded content, schedule posts, maintain visual consistency, manage social engagement, and support marketing campaigns. Your role involves creating templates, simple animations, brand visuals, and ensuring OX4Labs maintains a clean, modern digital presence.

◆ **Expected Deliverables**

- Monthly content plan
- Visual assets & templates
- Social media insights

◆ **Required Skills**

- Design sense
- Social media knowledge
- Basic analytics
- Creativity



Position: Personal Branding Intern (CEO Brand)

Track: BRAND, DESIGN & MARKETING TRACK

Duration: 4-6 months

◆ **What You Will Do**

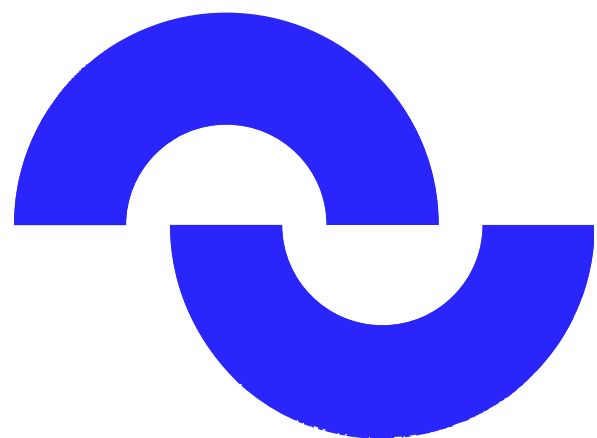
You will work directly with the CEO to develop and amplify his personal brand through high-quality content. You will research ideas, create posts, craft storytelling concepts, structure scripts, and analyze engagement to refine messaging. Your work contributes to positioning the CEO as a leader in AI and innovation.

◆ **Expected Deliverables**

- Weekly content calendar
- Content pieces
- Growth & engagement insights

◆ **Required Skills**

- Strong writing
- Storytelling
- Social media understanding
- Research capability



Position: UI/UX Design Intern

Track: BRAND, DESIGN & MARKETING TRACK

Duration: 4-6 months

◆ **What You Will Do**

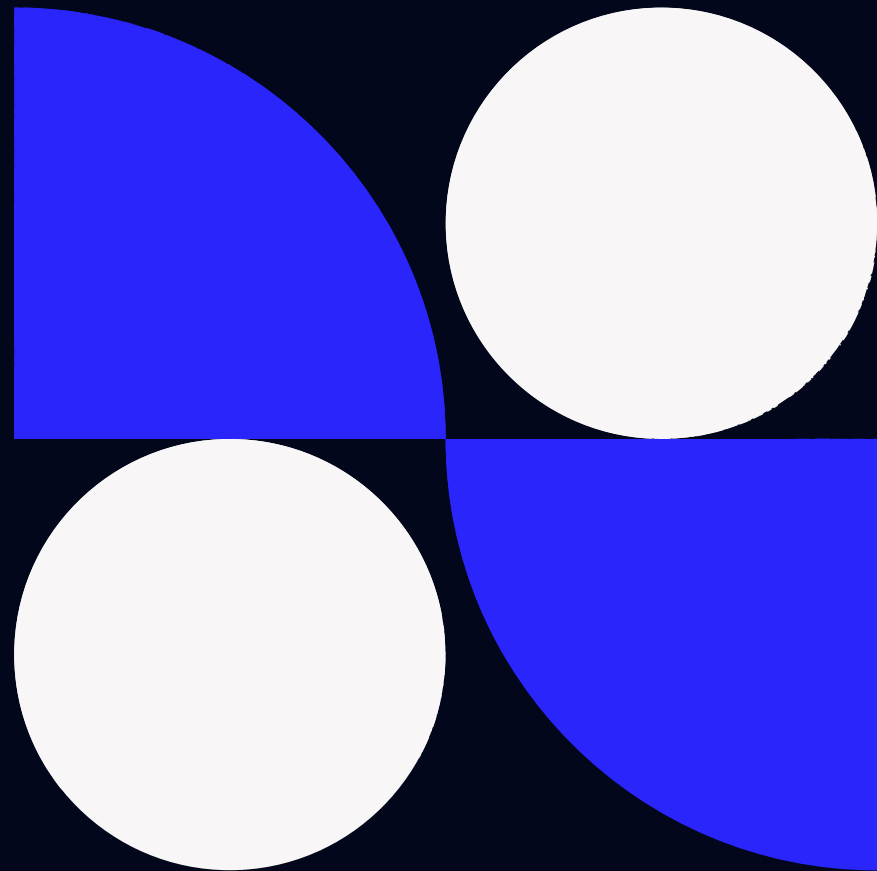
You will design user flows, wireframes, and interfaces for dashboards, web apps, AI tools, and LMS features. You will collaborate closely with developers to ensure clean, usable implementation and contribute to building consistent design systems.

◆ **Expected Deliverables**

- Wireframes & prototypes
- UI screens
- UX documentation

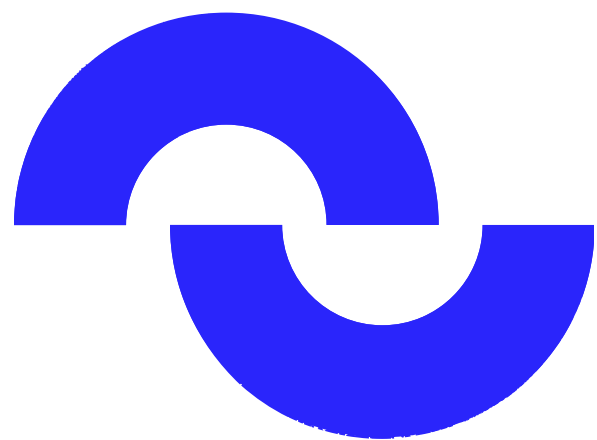
◆ **Required Skills**

- UX thinking
- Figma mastery
- Attention to detail
- Understanding of components



SOFTWARE ENGINEERING TRACKS

Positions available: 2



Position: Full-Stack Developer #1

Project: Ox4website rework

Track: SOFTWARE ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will rebuild the OX4Labs website from scratch, including its CMS, case study engine, blog system, event features, and AI concierge chatbot. You'll work on both frontend and backend, delivering a polished, scalable, and fast digital experience.

✦ Expected Deliverables

- Complete website rebuild
- CMS + content modules
- AI chatbot integration

✦ Required Skills

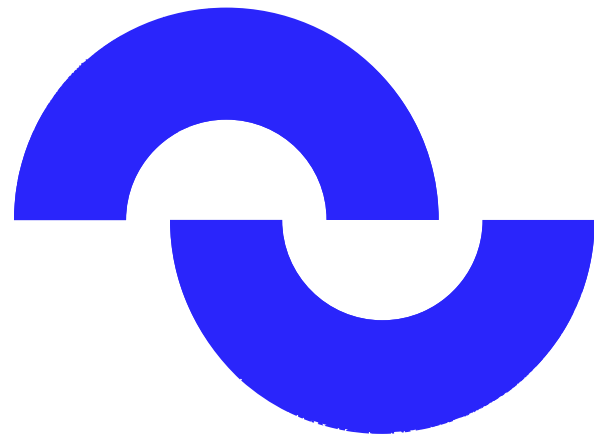
- Frontend & backend fundamentals
- API integration
- Clean code structure
- Problem-solving

Next.js

FastAPI

Tailwind

LLMs



Position: Full-Stack Developer

Project: LMS Platform

Track: SOFTWARE ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will build a full LMS ecosystem including video modules, quizzes, progress analytics, admin dashboards, and user management, ensuring a scalable and high-performing platform.

✦ Expected Deliverables

- LMS MVP
- Course module features
- Analytics dashboard

✦ Required Skills

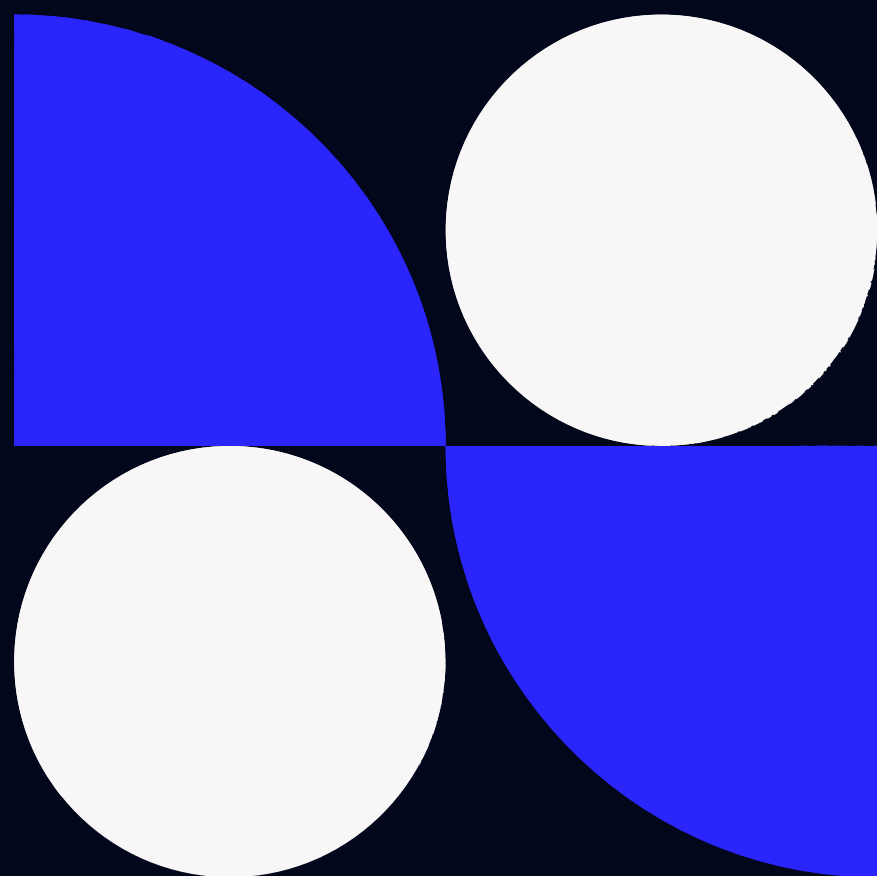
- Full-stack architecture
- Database design
- API development
- UI implementation

Next.js

MERN

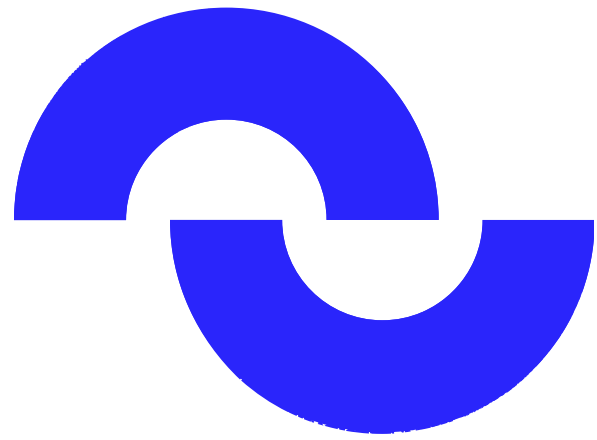
Tailwind

Azure



AI ENGINEERING TRACKS

Positions available: 8



Position: AI Developer

Project: Adaptive Learning Engine

Track: AI ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will create the intelligence layer of the LMS by building adaptive learning models, mastery prediction logic, recommendation algorithms, and APIs that personalize each user's learning path.

✦ Expected Deliverables

- Adaptive engine
- LMS integration
- Data logs & scoring

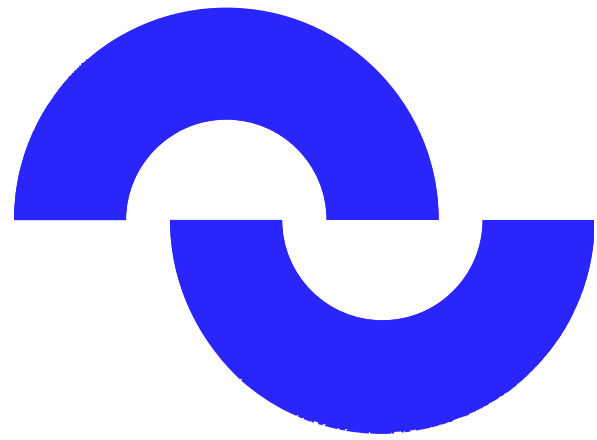
✦ Required Skills

- Python
- Mathematical modeling
- API development
- Data analysis

Python

FastAPI

LLMs



Position: AI Developer

Project: Emotional Analysis System

Track: AI ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will develop a system capable of detecting emotional tone from text (and optionally voice transcripts). You will define label sets, evaluate models, build APIs, and produce visual sentiment dashboards while respecting privacy and ethics.

✦ Expected Deliverables

- Emotion classification model or pipeline
- Basic visualization or reporting of emotional trends
- Evaluation report on accuracy and limitations

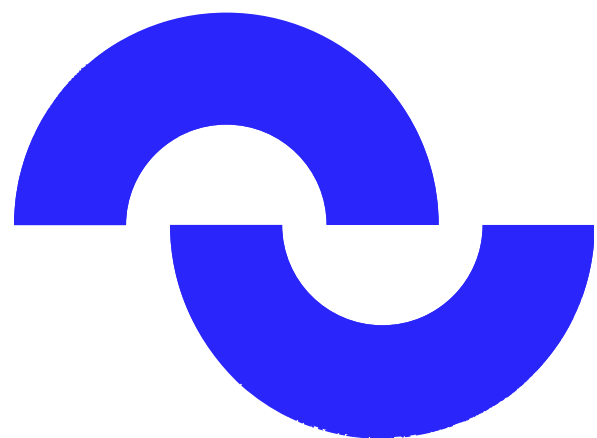
✦ Required Skills

- NLP
- Python
- Dataset preparation
- Ethical awareness

Hugging Face

FastAPI

LLMs



Position: AI Developer

Project: Pre-Diagnostic Healthcare Agent

Track: AI ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will design an AI agent that analyzes symptoms, structured Q&A, medical history, and uploaded files to provide pre-diagnostic orientation, risk indicators, and suggested next steps—without performing diagnosis.

✦ Expected Deliverables

- Pre-diagnostic engine
- Clinical logic rulesets
- Triage recommendation API

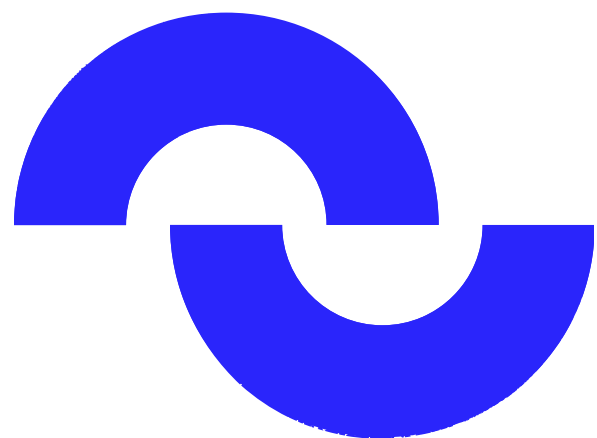
✦ Required Skills

- Medical reasoning
- LLM logic
- Python
- API development

LLMs

FastAPI

LLMs



Position: AI Developer

Project: “Jarvis” Personal Assistant

Track: AI ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will build an AI assistant capable of summarizing meetings, extracting tasks, answering questions, navigating internal data, and executing actions via tool integrations across the studio.

✦ Expected Deliverables

- Working assistant MVP
- Integrations for actions
- Reasoning/debug logs

✦ Required Skills

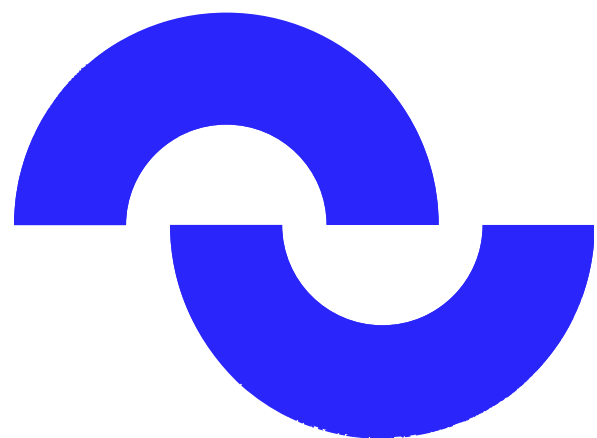
- LLMs
- API integration
- Tool use logic
- Backend development

Python

FastAPI

LLMs

MCP



Position: AI Developer

Project: AI STEM Tutor

Track: AI ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will build an AI tutoring engine that delivers step-by-step reasoning, explanations, hints, and correction mechanisms for STEM exercises while adapting to the student's skill level.

✦ Expected Deliverables

- Tutoring engine
- Interactive API
- STEM reasoning logic

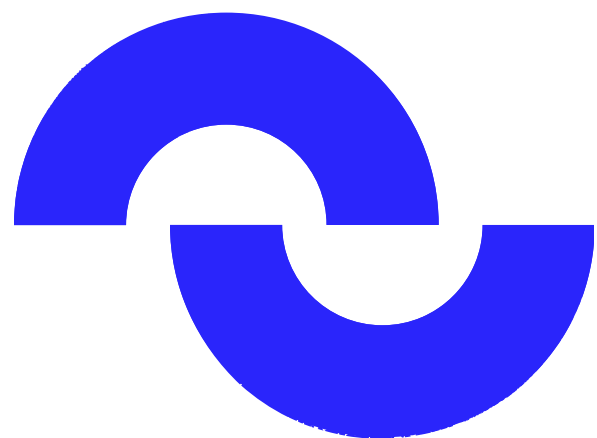
✦ Required Skills

- Prompt engineering
- LLM reasoning
- Basic pedagogy logic

Python

FastAPI

LLMs



Position: AI Developer

Project: RAG Engine for Enterprise Knowledge

Track: AI ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will develop a full RAG pipeline capable of ingesting corporate documents, indexing them, and producing grounded responses through advanced chunking, embeddings, and retrieval strategies.

✦ Expected Deliverables

- RAG engine
- Search interface
- Document ingestion

✦ Required Skills

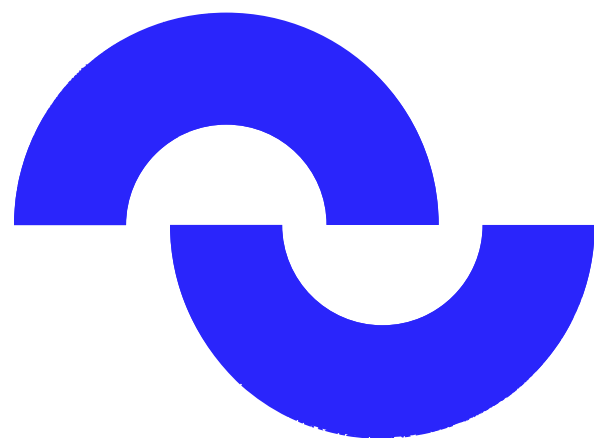
- Vector databases
- Chunking strategy
- Backend engineering
- LLM knowledge

Python

LangChain

FastAPI

VectorDB



Position: AI Developer

Project: Behavioral Knowledge Graph

Track: AI ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will create a knowledge graph modeling user behaviors, sessions, actions, and habits across digital platforms. You will structure events, build ontologies, link relationships, and derive patterns for engagement and habit formation.

✦ Expected Deliverables

- Behavioral ontology
- Knowledge graph
- Insight extraction queries

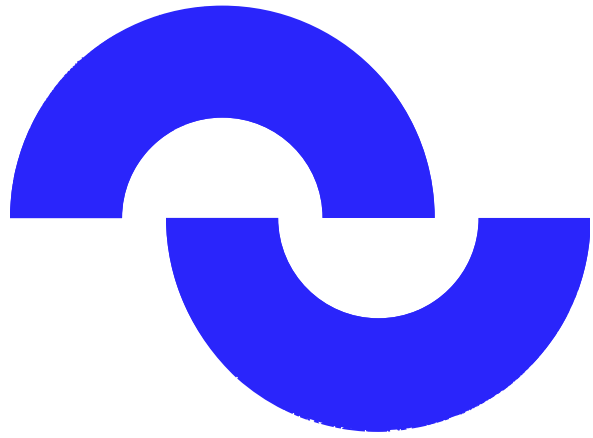
✦ Required Skills

- Python
- Graph modeling
- Data structuring
- Analytics thinking

Python

Neo4J

FastAPI



Position: AI Developer

Project: CEO Intelligence Dashboard

Track: AI ENGINEERING TRACKS

Duration: 6 months

✦ What You Will Do

You will build an AI-powered analytical dashboard that reads data from CRMs, project tools, documents, emails, and meeting notes to generate weekly briefs, insights, alerts, risks, and strategic summaries for the CEO.

✦ Expected Deliverables

- CEO dashboard
- Multi-source data ingestion
- Weekly AI-generated insight

✦ Required Skills

- API integrations
- LLM summarization
- Data modeling
- Backend architecture

LLMs

FastAPI

NextJS

MCP

How To Apply

Interested in joining OX4Labs for your PFE Internship?

Send your application to:

Hello@ox4labs.com

Include:

- Your CV (PDF)
- Portfolio / GitHub (if applicable)
- The role you're applying for
- A 1-minute video telling us why YOU belong at OX4Labs (Highly recommended — we notice the **bold ones.**)

Email subject:

PFE – Your Name – Role Title

What happens next:

Quick screening > Short intro call > Final in-person interview

