



PFE BOOK EDITION 2025

www.looyas.com



ABOUT OUR COMPANY

Looyas, built on commitment and excellence, supports Independent Software Vendors (ISVs) across the software lifecycle. We offer Fullstack SaaS, Quality Assurance, Agile development, Cloud journeys, Digital managed services, and AIOps. With a focus on high quality, time-to-market engagement, and optimized costs, Looyas delivers tailored digital solutions that drive business innovation.





OUR MISSION

Our mission is to be the trusted digital partner for organizations seeking innovative, reliable, and scalable cloud and QA solutions. We strive to simplify technology for our clients, providing expertise that enhances their operations, improves productivity, and supports sustainable growth. With a client-centered approach, we aim to deliver tailored solutions that ensure each business we work with achieves measurable success.

OUR VISION

We envision a world where digital transformation is accessible, seamless, and empowering for all organizations. At Looyas, we aspire to lead in the areas of cloud innovation and digital outsourcing by continuously enhancing our offerings and adapting to the latest advancements in technology. Our vision is to become a top-tier provider recognized for quality, agility, and transformative solutions in the digital ecosystem.



OUR GOALS

Enhance Cloud Innovation: Constantly expand our cloud services, particularly through Oracle Cloud Infrastructure, to provide cutting-edge solutions that address our clients' evolving needs.

Excellence in Quality Assurance: Lead in the field of software quality assurance by implementing modern QA methodologies and automated testing processes.

Strengthen Client Relationships: Develop and maintain long-lasting partnerships through transparent communication and consistent, high-quality service delivery.

Sustainable Growth: Grow our business sustainably by aligning with emerging technologies, expanding our regional and international client base, and fostering a culture of continuous improvement.



Empower Our Team: Invest in ongoing training and development to empower our team with the skills needed to deliver exceptional results.



COMPANY VALUES





OUR SERVICES



SOFTWARE OUTSOURCING



DIGITAL TRANSFORMATION



CLOUD FIRST



AIOPS



WHY JOIN US ?



PROFESSIONAL GROWTH

Gain hands-on experience with real-world projects.



MENTORSHIP

Learn from experienced professionals in the industry.



INNOVATIVE ENVIRONMENT

Work with cutting-edge technologies and solutions.



NETWORKING

Build connections with industry experts and fellow interns.



PROJECT TOPICS OVERVIEW

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PROJECT TOPICS OVERVIEW

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CL-02: AI-Powered Support Chatbot ([page18](#))

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HR-03: Employee Wellness ,Retention and Stability Module Assisted by AI ([page 25](#))



QA-01

PERFORMANCE EVALUATION OF A WEB APPLICATION USING LOCUST

Description:

Configure Locust to measure performance and simulate stress and endurance tests of a web application.

Technology/Tools:

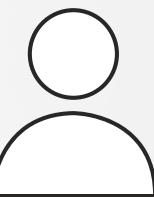
Locust, python



Development
Engineer



Tunis



1 profile



4 to 6 months



QA-02

API TESTS AUTOMATION

Description:

Implement API automated tests in order to improve software quality and simplify front end testing.

Technology/Tools:

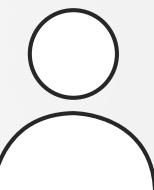
Postman / SoapUI / Swagger ...



Development
Engineer



Tunis



1 profile



4 to 6 months



QA-03

IMPLEMENTATION AND AUTOMATION OF SECURITY TESTS

Description:

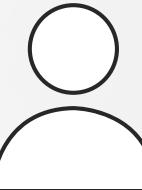
Implement and automate security tests of a web application, in order to protect sensitive data, identify vulnerability risks and strengthen system defense.



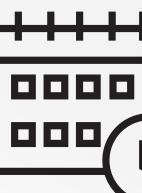
Development
Engineer



Tunis



1 profile



4 to 6 months





QA-04

USE OF AI TO AUTOMATE GENERATION OF TEST SCENARIOS IN SQUASHTEST

Description:

Use AI to Automate scenario Generation in SquashTest from user stories in JIRA

Technology/Tools:

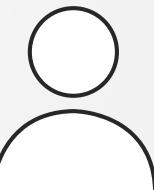
Python / Java/ NLP : NLTK, spaCy/ scikit-learn, TensorFlow, PyTorch/ Git, SquashTest, Jira



AI/Data Science
Engineer



Tunis



1 profile



4 to 6 months



QA-05

DEVELOPMENT OF A MONITORING DASHBOARD FOR TEST CAMPAIGNS

Description:

Create a dashboard ensuring interactive visualization and facilitating the monitoring of test campaigns using data exported from SquashTestl. The dashboard is used to visualize, analyze and generate monitoring reports.

Technology/Tools:

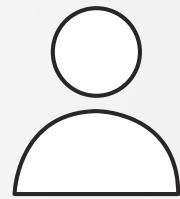
Python, JS, Ranorex, Microsoft powerBI



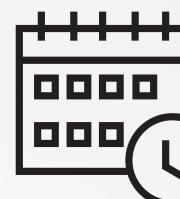
Development
Engineer



Tunis



1 profile



4 to 6 months



QA-06

USE OF AI TO DETECT APPLICATION REGRESSION RISKS

Description:

Development of an AI module that calculate the probability of regression of any new development.

Technology/Tools:

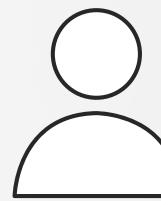
ISTQB, GitLab, AI...



AI/Data Science
Engineer



Tunis



1 profile



4 to 6 months



SL-01

AI-DRIVEN PROSPECTING AND CLIENT ACQUISITION THROUGH AN INTELLIGENT CHATBOT.

Description:

Development of an intelligent chatbot to interact with website visitors in real-time, answer their questions, and guide potential clients in discovering services by analyzing their specific needs and offering tailored solutions.

Technology/Tools:

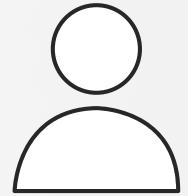
NLP, Dialogflow or Rasa, Node.js, AI, GitHub/Gitlab, CRM.



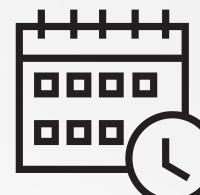
AI/Data Science
Engineer



Tunis



1 profile



4 to 6 months



CL-01

MULTI-CLOUD INTELLIGENT ASSISTANT POWERED BY LLMS

Description:

Develop an interactive intelligent assistant that engages in natural language conversations and interprets diverse file formats to provide context-aware, accurate responses using external data sources.

Technology/Tools:

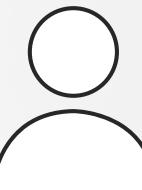
Python, LangChain, RAG, LLM model, CrewAI, Pinecone, and file parsing libraries



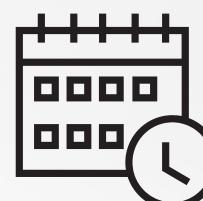
AI/Data Science
Engineer



Tunis



1 profile



4 to 6 months



CL-02

AI-POWERED SUPPORT CHATBOT

Description:

Design a chatbot to automate user support, guide users through the platform with training data, and escalate complex queries to human agents for a seamless assistance experience.

Technology/Tools:

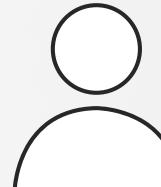
RAG, LangChain, FAISS, PostgreSQL, Redis, Docker



AI/Data Science
Engineer



Tunis



1 profile



4 to 6 months



CL-03

FINE-TUNING AN LLM FOR TERRAFORM CODE GENERATION WITH CONTINUOUS UPDATES

Description:

Create a fine-tuned LLM capable of generating Terraform code for multi-cloud setups, complemented by a module ensuring continuous updates for syntax and configuration changes.

Technology/Tools:

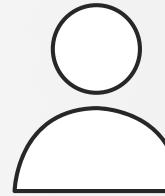
LLM Base Model, Pytorch,Beautiful Soup,OCI,...



AI/Data Science
Engineer



Tunis



1 profile



4 to 6 months



CL-04

LANDZ ADMIN DASHBOARD

Description:

Develop a management dashboard that empowers administrators to oversee platform operations, manage services, and optimize performance with actionable insights.

Technology/Tools:

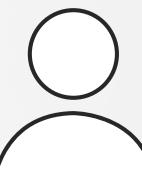
Spring Boot, Angular, PostgreSQL, Docker, ...



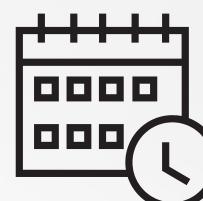
Bachelor's Degree
in Development



Tunis



1 profile



4 to 6 months



CL-05

MLOPS STACK FOR DATA ANNOTATION, EXTRACTION, AND TRAINING IN A KUBERNETES ENVIRONMENT

Description:

Build a Kubernetes-hosted MLOps stack to automate data annotation, extraction, and model training with scalable workflows and continuous integration for efficient machine learning development.

Technology/Tools:

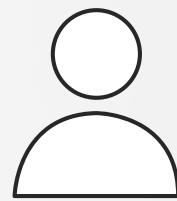
Kubernetes, Helm, Nexus Repository Manager, Keycloak, Docker, MLOps tools,...



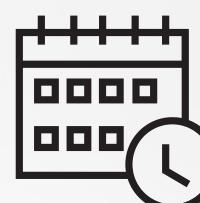
Cloud/DevOps
Engineer



Tunis



1 profile



4 to 6 months



CL-06

MULTI-CLOUD LANDING ZONE: OCI & GCP DEPLOYMENT USING TERRAFORM

Description:

Design and implement a multi-cloud landing zone with Terraform, enabling secure, scalable deployments across OCI and GCP, while automating testing and governance through CI/CD pipelines.

Technology/Tools:

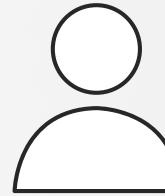
Terraform, OCI, GCP, Jenkins, Git, Vault, Kubernetes



Cloud/DevOps
Engineer



Tunis



1 profile



4 to 6 months



HR-01

CORE HR AND EMPLOYEE DATA MANAGEMENT MODULE

Description:

Develop a microservice module with the following features :

- Employee Information and Administration.
- Time and Attendance Management.
- Payroll and Compensation Management.

Technology/Tools:

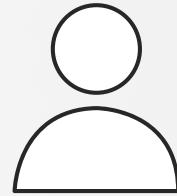
SpringBoot, React, Kubernetes



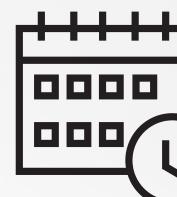
Development
Engineer



Tunis



1 profile



4 to 6 months



HR-02

TALENT ACQUISITION AND DYNAMIC CAREER PATHING MODULE ASSISTED BY AI

Description:

Develop a microservice module assisted by AI with the following features :

- Recruitment and Applicant Tracking
- Onboarding Workflow Automation
- skills and career path Management

Technology/Tools:

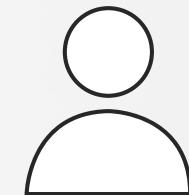
SpringBoot, React, Python, Hugging Face Transformers, NLP, Kubernetes



Development
Engineer + AI/Data
Science Engineer



Tunis



2 profiles



4 to 6 months



HR-03

EMPLOYEE WELLNESS, RETENTION AND STABILITY MODULE ASSISTED BY AI

Description:

Develop a microservice module assisted by AI with the following features :

- Monitor employee wellness
- Control and monitor employee turnover.
- Employee Retention Score

Technology/Tools:

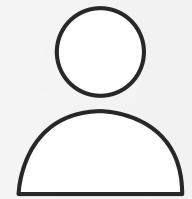
SpringBoot, React, Python, Hugging Face Transformers, NLP, Kubernetes



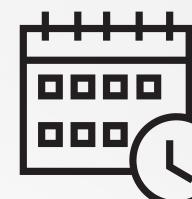
Development
Engineer + AI/Data
Science Engineer



Tunis



2 profiles



4 to 6 months



HOW TO APPLY?



Choose a Subject

Choose the PFE subject that aligns with your interests and goals.

1

2

3

4

Pre-selection & interview

If shortlisted, our team will arrange an interview to confirm the subject and discuss project details.



Submit Your CV

Please send your CV, including your full name, to the email address internships@looyas.com, specifying the project reference in the subject line (e.g., QA-01)

Onboarding

After approval, we'll guide you through the onboarding process.

THANK YOU

*We look forward to working
with you*



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