



PFE Book
year 2025

Table of content

01



Company
Overview

02



Project
Field

03



Project
List

04



How to
Apply

05



Contact Us



COMPANY OVERVIEW

With over 10 years of success in the information technology sector, we bring our vision to life from start to finish. From initial design to final product delivery, we provide you with access to cutting-edge technology.





PROJECT FIELD

Artificial intelligence (AI)

DevOPS

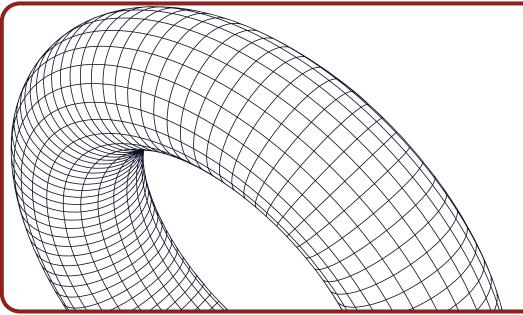
Full Stack Web

Project Title: Full-Stack CRM for Client Reclamation and Financial Management Using Angular and Strapi

Project Overview: This project aims to develop a full-stack Customer Relationship Management (CRM) system designed for internal use within a company. Built with Angular for the front-end and Node.js as the back-end CMS, the CRM will focus on two primary functionalities: managing client reclamations (complaints or requests) and generating invoices after the reclamation has been resolved. The goal is to streamline the process of tracking and handling client issues, and upon resolution, automatically generate invoices, improving business workflow, financial accuracy, and client satisfaction. This integrated approach will enhance internal operations by efficiently managing both customer interactions and post-resolution billing.

Technology

Angular / Node.js



number of interns.

1

Duration

- 6 months.

Methodology

- SCRUM

Level of education

- Bac + 3 or more

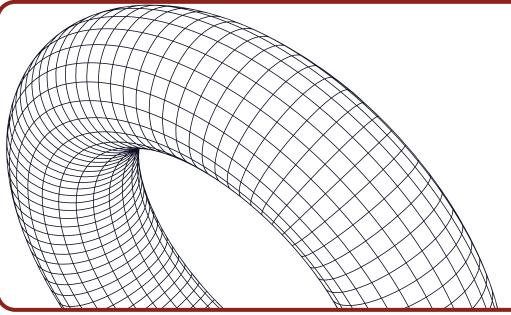


Project Title: Development of an Intelligent Chatbot for Customer Service with Large Language Model (LLM)

Project Overview: This project aims to design and deploy an intelligent chatbot specifically tailored to the needs of customer service. Leveraging a Large Language Model (LLM), the chatbot will provide contextual and relevant responses, optimized through a fine-tuning process to address specific requirements. Special attention will be given to the evaluation and integration of vector databases to ensure the performance and relevance of the responses.

Technology

- LLM: OpenAI, Gemini, MISRAL AI
- Vector Databases: FAISS, Pinecone, Milvus
- Frameworks and Platforms: LangChain, BotPress, Rasa, Dialogflow
- Programming Language: Python



number of interns.

1

Duration

- 6 months.

Methodology

- SCRUM

Level of education

- Bac + 3 or more

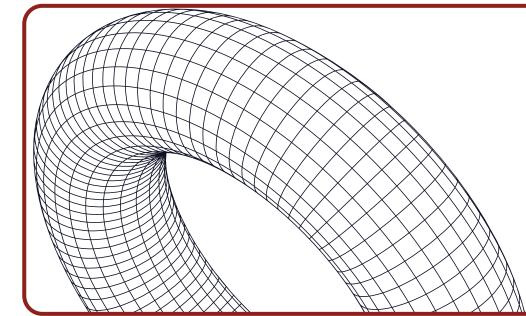


Project Title: AI-Powered Optimization for Industrial Scheduling: Real-Time Process Management

Project Overview: This project addresses the challenges of industrial scheduling, aiming to improve productivity, reduce costs, and enhance product quality through optimal resource allocation. Traditional scheduling methods, such as priority algorithms and heuristic approaches, can be ineffective in dynamic and complex industrial environments where multiple factors need to be considered. The project focuses on analyzing industrial scheduling problems and exploring the application of AI, specifically machine learning and optimization algorithms, to enhance scheduling efficiency. The goal is to develop an AI model capable of predicting, optimizing, and managing scheduling in real-time, adapting to changing conditions and constraints.

Technology

- Artificial Intelligence (AI)
- Machine Learning Algorithms
- Optimization Algorithms
- Real-time Data Processing
- Scheduling Software/Tools
- Data Analysis Tools



number of interns.

1

Duration

- 6 months.

Methodology

- SCRUM

Level of education

- Bac + 3 or more

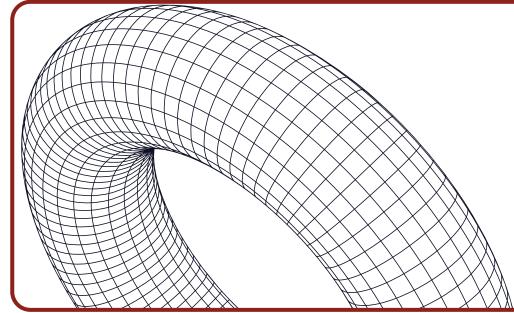


Project Title: AI-Based Virtual Try-On Platform for Jewelry (Rings)

Project Overview: This research project aims to develop an innovative virtual try-on platform dedicated to rings, allowing users to virtually visualize how their favorite jewelry would look on their own hand. Leveraging artificial intelligence and advanced computer vision techniques, the platform will generate a realistic image by overlaying the selected ring onto a photograph of the user's hand.

Technology

- Programming Language: Python
- AI Frameworks: TensorFlow, PyTorch
- Computer Vision Libraries: OpenCV, Mediapipe



number of interns.

1

Duration

- 6 months.

Methodology

- SCRUM

Level of education

- Bac + 3 or more

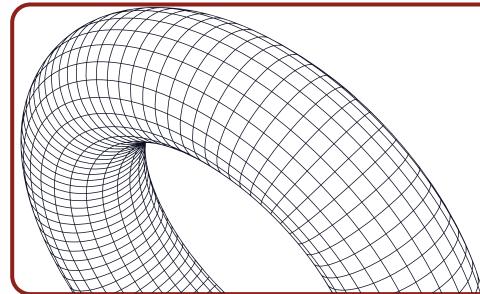


Project Title: Automation of ECS Infrastructure Deployment with Terraform on AWS and Security Optimization

Project Overview: This project aims to automate the deployment of an AWS ECS (Elastic Container Service) infrastructure using Terraform while integrating best security practices. The goal is to deliver a comprehensive solution for deploying containerized applications on ECS, with a highly available, scalable, and secure architecture.

Technology

- Terraform: IaC
- AWS ECS: Orchestration
- Networking: VPC, ALB, Security Groups
- Security: Secrets Manager, IAM
- Monitoring: CloudWatch
- Docker & ECR: Containers
- CI/CD: Pipelines



number of interns.

1

Duration

- 6 months.

Methodology

- SCRUM

Level of education

- Bac + 3 or more

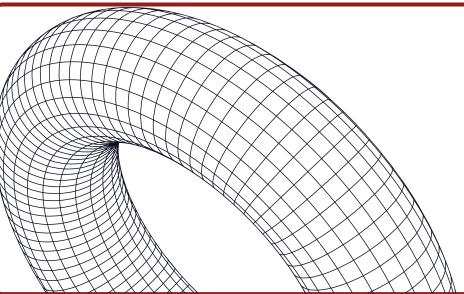


Project Title: Automation of Application Deployment with Ansible and Multi-Cloud Orchestration Management

Project Overview: This project aims to automate the deployment of applications in multi-cloud environments (AWS, Azure, Google Cloud) using Ansible, while implementing effective orchestration to ensure centralized and consistent management of deployments. With the growing adoption of multi-cloud solutions, this project will help overcome the challenges related to managing infrastructures and configurations specific to each cloud provider.

Technology

- Ansible: Automation
- Multi-cloud: AWS, Azure, Google Cloud
- Orchestration: Centralized management
- Standardization: Uniform configurations
- Cost Optimization: Cloud cost monitoring
- Security: Access, secrets, and configurations



number of interns.

1

Duration

- 6 months.

Methodology

- SCRUM

Level of education

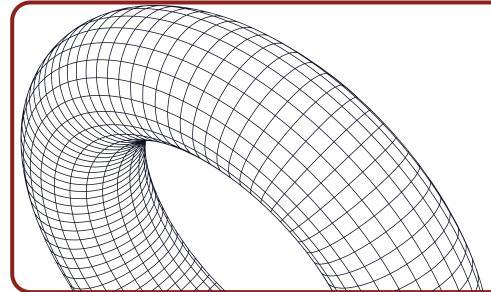
- Bac + 3 or more

Project Title: GitOps with Portainer for Multi-Environment Deployment (Dev, Staging, Prod)

Project Overview: The project focuses on implementing a GitOps approach to automate application deployments across multiple environments (Dev, Staging, Prod). Portainer, a tool for managing and administering Docker and Kubernetes containers, will be used to facilitate monitoring, centralized management of deployments, and integration of configurations via Git.

Technology

- GitOps: Deployment automation
- Portainer: Container and deployment management
- Multi-environments: Dev, Staging, Prod
- CI/CD Pipelines: Automated deployment
- Git: Version control (branches/tags)
- Security: Secrets and access control
- Monitoring: Observability tools



number of interns.

1

Duration

- 6 months.

Methodology

- SCRUM

Level of education

- Bac + 3 or more



HOW TO APPLY

- 1 . Make your choice wisely.
- 2 . Send us an email with your choice and CV.
- 3 . Stay tuned for our response.



Contact Us



Telephone

+216 96 711 084



Website

www.iovision.io

E-mail

Contact@iovision.io



B54, Building 24, Mongi Slim Street, Sakiet Ezzit, Sfax - Tunisia