


PFE BOOK 2k25

By Insomea

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About Us

#Kings of the Cloud
INSOMEA
COMPUTER SOLUTIONS

Cloud Partner

- Exclusively **focused** on our core business
- Provides cloud solutions and services

Experience

- **300+** successful implementations
- Our team (35+ engineers) combines multiple skills: Infrastructure, development and Information Security.

Regional Focus

- Multicultural / Multilanguage team
- Currently Located in Tunis , Algeria & Bahrain

Highlights

- **Microsoft Managed Partner**
- **Azure MSP & MSSP**
- **Partner of the Year 2020, 2021 and 2022**

Gold Microsoft Partner



- | | |
|---|---------------------------------------|
| ✓ Gold Cloud Platform | ✓ Gold Messaging |
| ✓ Gold Cloud Productivity | ✓ Gold Project & Portfolio Management |
| ✓ Gold Windows and Devices | ✓ Gold Data Platform |
| ✓ Gold Security | ✓ Gold Data Analytics |
| ✓ Gold Small & Mid-Market Cloud Solutions | ✓ Gold Content and Collaboration |
| ✓ Gold Application Integration | ✓ Gold Enterprise Mobility Management |
| ✓ Gold Application Development | ✓ Gold Messaging |
| ✓ Gold Communication | |
| ✓ Gold Datacenter | |
| ✓ Gold DevOps | |



Microsoft

Partner Advanced Specialization

- | | |
|---|--|
| ✓ Threat Protection | ✓ Teamwork Deployment |
| ✓ Identity and Access Management | ✓ Meeting & Meeting Rooms for Microsoft |
| ✓ Information Protection and Governance | ✓ Windows Server and SQL Server Migration to Microsoft Azure |
| ✓ Cloud Security | |
| ✓ Adoption & Change Management | |

[Check Here](#)



OUR SOLUTIONS

Modern Workplace

Microsoft 365

Power Platform

EndPoint Security



Azure

Security

ERP on Azure

DevOps

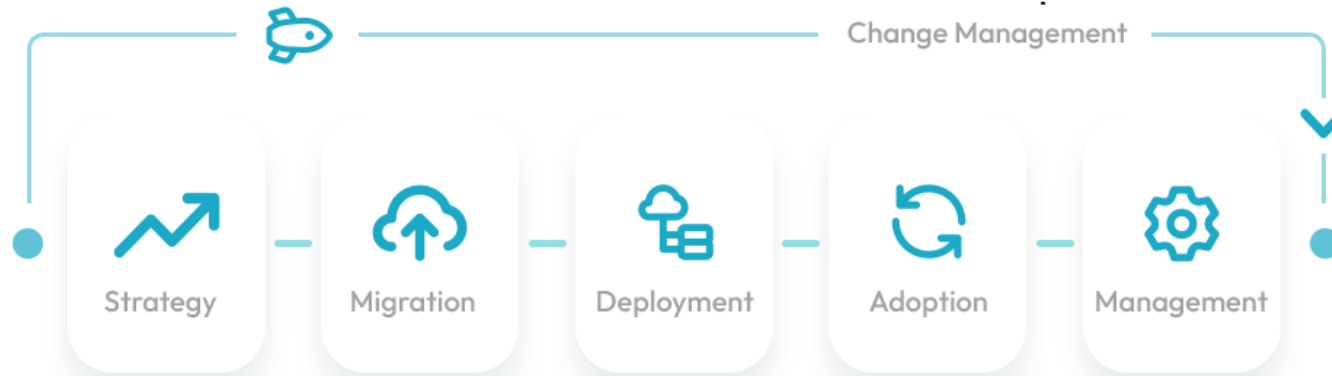
Apps Modernization

Backup & DR



Azure Sentinel

OUR ADDED VALUE



INSOMEA provides IT Consulting, Professional Services and Digital Services to help enterprises reach the expected benefits **when adopting or transitioning** to Cloud Computing

OUR VALUES



EMPOWREMENT

We are a force of proposal, we encourage initiative, we invest in the development of our skills .



TRANSPARENCY

We have a clear and effective communication strategy aligned with the company's vision



CLIENT CENTRIC

We understand, serve and anticipate our customers' needs in accordance with our commitments



EXCELLENCE

We achieve our goals and go beyond.

OUR SERVICES



Cloud Strategy

We help you in **analyzing and identifying** the suitable cloud option for your IT enterprise by defining clearly about the strategies of cloud and the roadmap for its transformation. Also, our experts create secure, scalable, innovative and robust **cloud solutions** for satisfying all your requirements.



Apps Modernization

We help you deploy your application in SaaS model. Our services include the design of a new appropriate architecture based on cloud services for **optimal performance** and security and different **security features** deployment



Security

We assist you to rapidly deploy a wide set of security solutions from Microsoft and its partners, including cutting-edge firewalls and antimalware. Our security services will give you at least peace of mind and enable the cloud transformation process in a secure and efficient way to reduce risks considerably.

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OUR SERVICES



Cloud Adoption

We make business transformation easy with an **intelligent approach** to cloud adoption. From assessments to planning, through migrating your workloads, we help you to seamlessly and quickly take the advantage of the **scalability** and **flexibility** of the cloud.



DevOps

DevOps makes continuous delivery possible by bringing business, development and operation teams together and applying automated processes to streamline IT. With our DevOps services we help your IT department accomplish the project at hand and adopt DevOps best practices in the software delivery life cycle.



Training

We deliver a well-established training to end-users on envisioning digital transformation scenarios that optimize customer's business process and support all cloud transformation services. We provide various training and workshops on: Cloud Fundamentals, Microsoft Azure Fundamentals, Microsoft 365 features, DevOps Workshop,

#Kings of the Cloud

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COMPUTER SOLUTIONS

OUR TEAM



TESTIMONY

« I am Mahdi Abbes, and I had the opportunity to join the INSOMEA team on December 9, 2024, as part of my internship. From the very first days, I was welcomed into a stimulating professional environment, where the onboarding process allowed me to discover the team's values and the essential tools to get off to a good start. This integration phase was followed by a week of intensive training on Langchain and Langgraph, two essential technologies for the success of my tasks. This training allowed me to enhance my technical skills and prepare me to contribute effectively to the team's projects.

Afterward, I was entrusted with an exciting project in the field of Contact Center Call Analytics, which aimed to analyze, using artificial intelligence, conversations between customer support and users. This project, combining innovation and collaboration, gave me the opportunity to work alongside Chaker Ayachi and Yasmine Chaieb. Together, we faced the challenges of the project and delivered a complete solution, contributing to a better understanding and use of customer interactions.

This internship has been an extremely enriching experience, both professionally and personally. It allowed me to develop my technical skills, strengthen my teamwork spirit, and discover the real-world impact of artificial intelligence in the field of data analysis.

I am grateful for this opportunity and proud to have contributed to such a meaningful project. »

~ Mahdi Abbes ~

TESTIMONY

“ I Had the opportunity to complete my final year internship at Insomea, where I worked on an ambitious project focused on designing and implementing a secure and automated infrastructure for one of their key clients, Ooredoo. This project allowed me to engage with cutting-edge technologies, such as Azure Red Hat OpenShift, Terraform, and Azure Monitor.

Under the guidance of Yassmine Chaieb, an outstanding supervisor, I acquired in- depth skills in cloud infrastructure management and process automation. She was an invaluable source of technical advice and support, guiding me through every stage of the project while granting me the autonomy needed to learn and innovate.

I am also deeply thankful to Amine Gongi, who supported me with his practical insights and advice. His recommendations had a direct impact on the quality and efficiency of my deliverables.

Additionally, I would like to express my gratitude to Seif Bouchech, the HR representative, for his support throughout my internship, and to Hejer Krichen and Mr.Youssef (managers) for their leadership and guidance. Their encouragement and constructive feedback were crucial in helping me grow during my time at Insomea. My experience would not have been complete without the exceptional team I had the privilege of collaborating with: Arbi, Omayma, Fatma, Syrine, Farah, Achref, and many others. Their teamwork, kindness, and energy created a highly motivating and inspiring work environment. This team not only helped me enhance my technical abilities but also taught me the value of collaboration in a professional setting. This internship not only solidified my technical knowledge but also allowed me to develop key cross-functional skills such as project management, complex problem- solving, and professional communication. These lessons will undoubtedly serve me throughout my career.

I am deeply grateful to Insomea for this enriching experience and for the trust they placed in me. This internship was a pivotal step in my professional and personal growth, and it will remain an unforgettable chapter in my journey.”

~ Ahmed bougacha ~

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TESTIMONY

“ I am delighted to reflect on my enriching internship experience at Insomea Computer Solutions, where I had the opportunity to contribute to impactful, forward-thinking project GitOps Solutions: Implementation of a management and deployment platform on AKS using the GitOps approach.

One of the highlights of my time at Insomea was working on project focused on process automation and cloud-native technologies. By utilizing tools like Docker, Kubernetes, and Azure DevOps, I collaborated with the team to design and implement streamlined deployment pipelines, enhance system integration, and improve operational efficiency. This experience not only deepened my technical expertise but also strengthened my problem-solving and teamwork skills within a dynamic and innovative environment.

I extend my heartfelt gratitude to the Insomea team for their unwavering support, mentorship, and confidence in my abilities. This internship was a transformative journey, and I am proud to have been part of such an inspiring organization.”

~ Hamza Youssef ~

“ I am excited to share my experience as an intern at Insomea, where I worked on the Feedback 360° project. This initiative focused on automating the collection, processing, and analysis of employee feedback.

Using tools like Microsoft Forms, Power Automate, SharePoint, and Power BI, I helped streamline data processes, enabling better analysis and decision-making. This experience strengthened my skills in process automation and data analysis within a collaborative environment.

Thank you to the Insomea team for their trust and support. ”

~ Hamza Limem ~



TS SUBJECT

Subject Title : Leveraging Microsoft Sentinel for Advanced Reporting with Power BI and Automated Incident Response Playbooks

 **Internship Duration**
6 Months

 **Number of interns:**
2-3

 **Reference:**
TSD/001/25

BRIEF PROJECT DESCRIPTION

This trainee program focuses on enhancing skills in two critical areas of Microsoft Sentinel: advanced reporting and automated incident response. He/She will learn to integrate Microsoft Sentinel with Power BI to create customized reports, enabling clear visualization and analysis of security data. Additionally, the internship covers designing automated playbooks using Azure Logic Apps, empowering trainee to streamline incident response and minimize manual intervention. By mastering these techniques, She/He will gain valuable expertise in improving security monitoring and response capabilities.

TASKS AND TECHNOLOGY TO BE USED

1. Data Integration & Setup:

- Connect Microsoft Sentinel to Power BI for data analysis and reporting.
- Configure the necessary data connectors in Microsoft Sentinel (e.g., Azure Monitor, Syslog, Common Event Format).
- Set up a data source and establish secure authentication for Power BI integration.

3. Playbook Development:

- Define common use cases for automated incident response (e.g., malware alerts, suspicious login activity).
- Develop Azure Logic Apps playbooks based on predefined incident response scenarios.
- Create workflows for automatic alert notifications, user account actions, and incident ticketing.

4. Documentation & Handover:

- Document the steps and configurations for Power BI integration with Microsoft Sentinel.
- Create a report/guide for setting up and customizing playbooks in Azure Logic Apps.
- Prepare a final presentation or demo showcasing the developed reports and playbooks to stakeholders.

2. Creating Power BI Reports:

- Identify key metrics and security data to be visualized (e.g., alert trends, incident counts, threat intelligence).
- Design and build interactive Power BI dashboards using Microsoft Sentinel logs.
- Configure custom visuals, filters, and KPIs to present actionable insights.
- Test and validate the accuracy of the reports with sample datasets.

4. Testing & Deployment:

- Conduct testing of Power BI dashboards for performance and data accuracy.
- Test automated playbooks to ensure correct execution and desired response actions.
- Troubleshoot and resolve any errors or issues in the playbooks and reporting configuration.

Subject Title : GenAI Demand Forecast Assistant Internship Project

 **Internship Duration**
6 Months

 **Number of interns:**
2-3

 **Reference:**
TSD/002/25

TASKS

1. Data Preparation and Model Integration
2. Natural Language Interface Development
3. Feature Importance Analysis
4. Model Interpretation Functions
5. Security and Confidentiality
6. User Interaction and Feedback
7. Performance Optimization
8. Reporting and Documentation
9. Testing and Validation

TECHNOLOGY TO BE USED

- TensorFlow
- PyTorch
- XGBoost
- SHAP
- Azure OpenAI
- LangChain
- FastAPI
- PostgreSQL
- Redis
- Azure Machine Learning



PS
SUBJECT

Subject Title : ChatBot As A Service



Internship Duration
6 Months



Number of interns:
2-3



Reference:
PSD/001/25

BRIEF PROJECT DESCRIPTION

This project aims to design a universal platform for creating and configuring adaptable chatbots for various use cases. The solution should provide an intuitive interface that allows dynamic definition of input types (text, voice, images, etc.), without requiring specific technical skills.

TASKS AND TECHNOLOGY TO BE USED

- Azure Open AI
- Azure AI Services
- Frontend: Angular
- Backend: Microservices
- Azure App Services
- Azure DevOps

Subject Title : Electronic Office Management (Visitor Register Book And Meeting Rooms Management)



Internship Duration
6 Months



Number of interns:
2-3



Reference:
PSD/002/25

BRIEF PROJECT DESCRIPTION

This project aims to design a Web and Mobile platform for the efficient management of meeting rooms, training rooms, and visitor entries within the company. The solution will be designed to be generic and adaptable, catering to the needs of any type of organization.

One of the key features of the platform will be its integration with the M365 calendar, enabling room reservations directly from collaborative tools.

The solution will provide an intuitive user interface and customization options to accommodate the organizational specifics of each company.

TASKS AND TECHNOLOGY TO BE USED

- Microsoft 365
- Frontend: Angular
- Backend: Spring Boot
- Azure App Services | Azure Container Instances
- Azure DevOps

Subject Title : AI Sales Agent



Internship Duration
6 Months



Number of interns:
2-3



Reference:
PSD/003/25

BRIEF PROJECT DESCRIPTION

This project aims to develop an intelligent sales agent, powered by artificial intelligence, capable of autonomously interacting with clients, analyzing their needs, and offering tailored solutions.

TASKS AND TECHNOLOGY TO BE USED

- Azure Open AI
- Azure AI Services
- Frontend: Angular
- Backend: Microservices
- Azure App Services
- Azure DevOps

Subject Title : AI Based Licenses Cost Calculator



Internship Duration
3 Months



Number of interns:
2-3



Reference:
PSD/004/25

BRIEF PROJECT DESCRIPTION

The objective of this project is to design and deploy an internal tool to calculate costs accurately and efficiently, considering multiple parameters. This tool should include the management of various prorations and license types, thus offering great flexibility to adapt to different use cases within the company. It will also centralize and automate cost calculations, thereby reducing errors and enhancing decision-making. The solution must be user-friendly, scalable, and easily integrable with existing systems.

TASKS AND TECHNOLOGY TO BE USED

- Frontend: Framework JS
- Backend: Framework JS
- Azure DevOps
- Azure App Services



TRAINEE'S SUBJECT

Subject Title : Development of an Intelligent Training Catalog and Registration System



Internship Duration
6 Months



Number of interns:
2-3



Reference:
TD/001/25

BRIEF PROJECT DESCRIPTION

Develop a comprehensive training catalog, allowing participants to easily browse and register for training based on their schedules, and send automated notifications to keep the training manager informed of new registrations and upcoming sessions

TASKS AND TECHNOLOGY TO BE USED

1. Power Platform: Power Apps, Dataverse, Power Automate..
2. MS Teams
3. SharePoint
4. Outlook

Subject Title : AI-Powered Chatbot for On-Demand Assistance and FAQ Management for Microsoft Licenses



Internship Duration
6 Months



Number of interns:
2-3



Reference:
TD/002/25

BRIEF PROJECT DESCRIPTION

Develop a chatbot using Copilot Studio to provide on-demand assistance and FAQs for tracking Microsoft licenses with their pricing and related features.

TASKS AND TECHNOLOGY TO BE USED

- Copilot Studio

Subject Title : Develop a Virtual Lab Environment

 **Internship Duration**
6 Months

 **Number of interns:**
2-3

 **Reference:**
TD/003/25

BRIEF PROJECT DESCRIPTION

Design a cloud-based virtual lab using Azure DevOps to allow employees to practice technical exercises in isolated environments

TASKS AND TECHNOLOGY TO BE USED

- Azure DevOps



SOC SUBJECT

Subject Title : Establishing a Compliance Methodology for a Microsoft 365 Environment with ISO 27001:2022

 **Internship Duration**
4 to 6 Months

 **Number of interns:**
2

 **Reference:**
SOC/001/25

BRIEF PROJECT DESCRIPTION

Develop a comprehensive methodology enabling a company to make its Microsoft 365 environment compliant with the requirements of ISO 27001:2022, incorporating both organizational and technical measures.

TASKS

- A documented methodology (practical guide)
- Compliance gap assessment table (Gap Analysis)
- Prototypes of ISO 27001 controls implementation in Microsoft 365

TECHNOLOGY TO BE USED

- Microsoft 365 (SharePoint, Exchange, Teams)
- Compliance Manager
- Azure Policy & Security Center
- ISO 27001:2022 (documentation and auditing tools)

Subject Title : Enhancing the Security of a Microsoft 365 Environment

 **Internship Duration**
5 to 6 Months

 **Number of interns:**
2

 **Reference:**
SOC/002/25

BRIEF PROJECT DESCRIPTION

Identify and implement best practices and tools to strengthen the security of Microsoft 365 data and services against current threats.

TASKS

- A report on risks and threats related to Microsoft 365
- Security improvement plan (technical and organizational actions)
- Demonstration of enhanced security configurations

TECHNOLOGY TO BE USED

- Microsoft Defender for Office 365
- Azure Active Directory (Conditional Access, MFA)
- Microsoft Purview (sensitive data management)
- Phishing simulation and incident response tools

Subject Title : Automating Security Incident Management in a Microsoft 365 Environment with a SIEM/SOAR Solution

 **Internship Duration**
5 Months

 **Number of interns:**
2

 **Reference:**
SOC/003/25

BRIEF PROJECT DESCRIPTION

Design an automated solution for detecting and responding to incidents in a Microsoft 365 environment using a SIEM/SOAR platform.

TASKS

- Automation playbook for incident scenarios (phishing, authentication compromise, etc.)
- Interactive dashboard in Sentinel
- Documentation of use cases and tests performed

TECHNOLOGY TO BE USED

- Microsoft Sentinel (SIEM)
- Azure Logic Apps
- Microsoft 365 Graph API
- MITRE ATT&CK Framework

? HOW TO APPLY

To apply for an internship with us.
Please send your CV mentioning the subject .



hr@insomea.tn



Send your CV



Interview



Validation

