



TUNUP

PFE BOOK 2024

01.





Welcome to the team!

Who we are !

Cimpress is a strategically-focused group of more than a dozen businesses, each operating in a largely autonomous manner. Mass customization is at the heart of the Cimpress strategy. At Cimpress, we seek to produce goods and services to meet individual customer needs with near mass production efficiency.

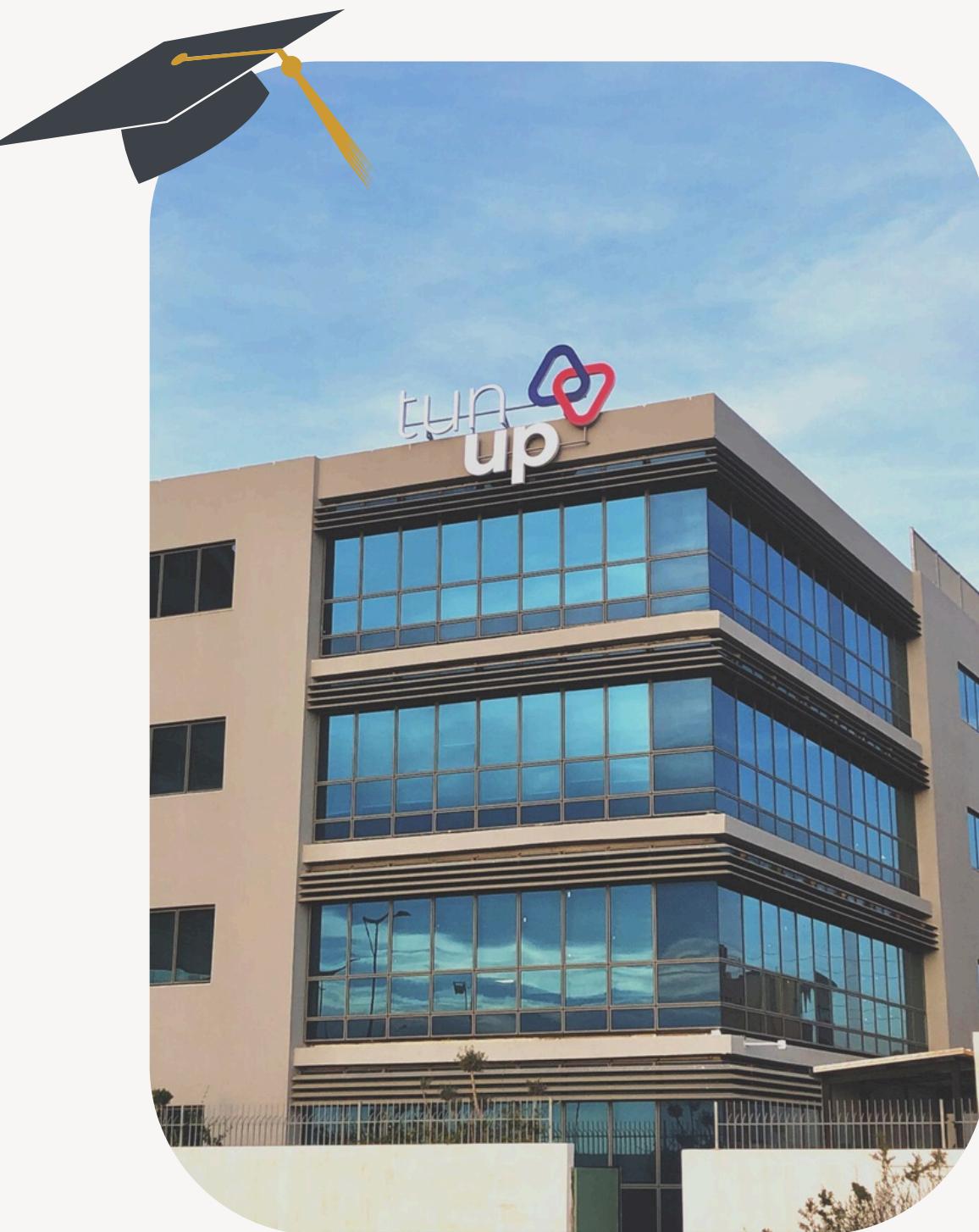
Pixartprinting is an e-commerce company belonging to the Cimpress Group. At Pixartprinting, we do much more than printing. We offer a complete and professional service that aims to support our customers' communication projects, whatever line of business they are in.

TunUp (Tunisia Upload & Print) is a Tunisian company that hosts activities of four Cimpress companies belonging to the PrintGroup which coordinates several European Upload & Print businesses (Pixartprinting, Easyflyer, Exaprint and Tradeprint).



IT Project Topics Catalogue

- AI assisted Quality monitoring tool
- AI empowered Cross-selling assistant
- Full-Stack Web Development (MERN Stack) : Develop a Company Showcase Website For Tunup
- Full-Stack Web Development (MERN Stack) : Develop a Taxi Management Application For Tunup





1st Subject : AI Assisted Quality Monitoring Tool

What you will do:

To help maintain high standards in the quality of customer support, we intend to develop a tool that allows to evaluate the answers provided to customers. The tool will analyze the transcript of the interaction and make the evaluation based on criteria such as clarity, effectiveness and empathy. This tool will allow to generate inputs about areas that need additional training, refresh sessions, ... The tool will be based on LLM (large mode capabilities) and will use either the RAG (Retrieval Augmented Generation) or Fine-Tuning techniques. The choice of the LLM will be part of project and will be based on cost-effectiveness in addition to quality criteria
It is mandatory to keep customer data safe and to be compliant with our privacy policies.

Interested in this topic?
[Click here to apply!](#)

Keywords: Generative AI, LLMs, RAG, Fine tuning

Your qualifications:

- You are at your last year of computer engineering studies
- You had an exposure to Artificial intelligence, and you have preferably used it in previous projects
- You have good programming skills, preferably in Python
- You are a fast learner and have good communication skills



2nd Subject : AI Empowered Cross-Selling Assistant

What you will do:

To support our agents in their cross-sell/up-sell effort, we intend to offer them an assistant that allows them to make the right recommendations to the customers related to products/opportunities,...

The tool will be based on LLM (large model capabilities) and will use either the RAG (Retrieval Augmented Generation) or Fine-Tuning techniques.

It will use the data available about the products and the customer (past purchases, past interactions, industry, ...) to make accurate recommendations to the agent

The choice of the LLM will be part of project and will be based on cost-effectiveness in addition to quality criteria

It is mandatory to keep customer data safe and to be compliant with our privacy policies.

Keywords: Generative AI, LLMs, RAG, Fine tuning, cross-sell, up-sell

Your qualifications:

- You are at your last year of computer engineering studies
- You had an exposure to Artificial intelligence, and you have preferably used it in previous projects
- You have good programming skills
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Last Subjects

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● Duration: 6 months

What We Offer :

- Hands-on experience in developing a real-world application from scratch.
- Opportunity to work with modern web technologies in a professional environment.
- Exposure to agile development methodologies and tools.
- Flexible working hours and the possibility to work remotely.

About The Role :

● 3rd Subject : Full Stack Developer (MERN Stack)

We are seeking two motivated PFE trainees to develop a company showcase website for Tunup. The site will present our company, activities, news, and updates, and include a recruitment section integrated with our HR system. The project will involve working on both frontend and backend technologies to build a fully functional and responsive website.





3rd Subject : Full Stack Developer (MERN Stack)

Key Responsibilities:

- Design and develop the website's frontend for showcasing company information, news, and a recruitment section.
- Create a backend system for managing content, integrating with the HRIS API for job postings and candidate applications.
- Ensure a responsive design for an optimal user experience across all devices.
- Implement features for candidates to apply for open positions or submit spontaneous applications.
- Collaborate closely with team members to ensure the website meets all functional and aesthetic requirements.

Required Skills & Qualifications:

- Frontend Development: Experience with HTML, CSS, JavaScript, and a framework like React.
- Backend Development: Knowledge of Node.js and Express.js for server-side development.
- Database Management: Familiarity with MongoDB or any other NoSQL/SQL database.
- API Integration: Experience with RESTful APIs.
- Version Control: Knowledge of Git and GitHub for source code management.
- Problem-solving mindset and a willingness to learn new technologies.

Preferred Skills (but not required):

- Experience with Next.js or Gatsby for server-side rendering and fast performance.
- Exposure to a headless CMS for content management (e.g., Strapi, Sanity).

Interested in this topic?
Click here to apply!



About The Role :

● 4th Subject : Full Stack Developer (MERN Stack)

We are seeking a PFE trainee to develop a Taxi Management Application for Tunup. This application will optimize the coordination of employee transport, ensuring efficient taxi utilization. The aim is to develop a system that can handle scheduling, optimize taxi capacity, and provide a user-friendly experience for both coordinators and employees.



4th Subject : Full Stack Developer (MERN Stack)



Key Responsibilities:

- Design and develop a web and mobile application to manage and optimize taxi transport for Tunup employees.
- Implement features for booking, capacity management, and real-time updates to ensure efficient taxi usage.
- Develop an interface for transport coordinators to manage schedules, monitor taxi availability, and optimize routes.
- Ensure a seamless and responsive user experience for employees booking taxis.
- Implement notifications for booking confirmations, scheduling changes, and taxi status.
- Collaborate closely with stakeholders to gather requirements and iterate on the application's functionalities.

Required Skills & Qualifications:

- Frontend Development: Experience with Angular (or React if considering a mobile solution), HTML, CSS, and JavaScript.
- Backend Development: Knowledge of Node.js and Express.js for building a scalable server-side.
- Database Management: Familiarity with MongoDB or another NoSQL database for handling booking data, user details, and schedules.
- Mobile Development : Experience with React Native for cross-platform mobile app development.
- API Integration: Ability to create and consume RESTful APIs.
- Problem-solving and Optimization: Ability to create algorithms to optimize taxi usage based on booking data and availability.
- Version Control: Knowledge of Git for source code management.

Preferred Skills:

- Understanding of real-time data handling for features like live updates and notifications.
- Experience with Google Maps API or other geolocation services for route optimization and tracking.

Interested in this topic?
Click here to apply!

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Thank you for your attention!

We hope this PFE Book has inspired you and sparked your interest in joining our teams to take on new challenges together.

For any questions or to apply for one of the topics, feel free to reach out to us. We look forward to collaborating with you!



Stay tuned for updates!



Best of luck!

- Now let's start building something great.

