Arij Ben Tej
Software Engineer

A dynamic, curious and ambitious professional. Interested in all technology fields especially data analysis, web development and consulting.

✉ arijbentej@gmail.com
📞 +21629664279
in https://www.linkedin.com/in/erij-bentej/
○ https://github.com/arijbt

WORK EXPERIENCE

3D Matchmovers
Research and development Engineer

01/2022 – Ongoing   Tunis, Tunisia.

- Developing new requirements of a production management tool « Bernard Production Engine ».

Used tools and technologies: Python, MongoDB, QT, Jira, GitLab.
Keywords: Cross-platform development, Agility, backend, graphical interface development.

Computer Science, Modeling and Information and Knowledge Processing research Laboratory LIMTIC
Researcher in image processing – Master thesis

06/2021 – 11/2021   Tunis, Tunisia.

- Automated brain tissues segmentation and classification of MRI images.
- Tested Fuzzy C-Means (FCM) variants on the segmentation and classification of brain tissues.
- Designed and developed a new Machine Learning architecture based on FCM for MRI brain images segmentation and classification.

Used tools and technologies: MATLAB, GitHub.
Keywords: Supervised Learning, Unsupervised Learning, Decision Tree (CART), Fuzzy logic, Dempster-Shafer theory.

Information Technology Consultant - Freelance

03/2021 – 08/2021   Tunis, Tunisia.

- Identified the requirements and proposed improvements for the existant application.
- Implemented and integrated a quality control system for biscuits.
- Conducted workshops to train the final users on using the new system.

Customers: Automation Technics and TOM factory.
Used tools and technologies: VB.NET, SQL, Microsoft SQL Server, Visual Studio 2019.
Keywords: Desktop application, Consulting, Change management.

Focus International
Software Engineer

07/2019 – 11/2019 et 02/2020-10/2020   Ariana, Tunisia.

Car Easy Apps Project within the connectivity team:
- Implemented communication protocols between the car radio and a mobile application.
- Added new information about the state of the car that can be collected by the mobile application.

Customers: Continental and PSA Peugeot Citroën.
Used tools and technologies: C++v14, C, Qt creator, JAVA, Linux, Android Studio, IBM Rational tools Synergy, Github.
Keywords: Full Stack, Embedded systems, Automotive, Mobile development.

Looyas
Full Stack Engineer

11/2019 – 02/2020   Tunis, Tunisia.

- Designed and implemented new specifications and performed the required tests for the POP project: a mobile application that calculates the cardiovascular risk which is connected to a website for users and tasks management.
- Created the local development environment for POP project and wrote documentation.

Customer: BePatient.
Used tools and technologies: Html5, CSS3, Angular5, Python, NoSQL, MongoDB, ionic3, Cordova, Gi-tHub, docker, UML.
Keywords: Full Stack development, Health care, Mobile development.

Focus International
Research and Development Engineer - Internship

02/2019 – 06/2019

- Designed and implemented an advanced driver assistant system that is responsible of detecting the vehicle surroundings based on Lidar and camera data fusion.   Ariana, Tunisia.

Used tools and technologies: MATLAB, Python, ROS1.
Keywords: Computer Vision, Sensor fusion, Dempster-Shafer theory.

EDUCATION

Master 2 in Advanced Engineering
Tunisia Polytechnic School
Major: Complex and Intelligent systems
10/2020 – 12/2021   Tunis, Tunisia.

Engineering cycle
National Engineering School of Carthage
Major: Computer Engineering
09/2016 – 07/2019   Ariana, Tunisia.

Preparatory cycle to engineering studies
Prepratory Institute to Engineering Studies of Nabeul/ El Manar
Major: Mathematics and Science physics
09/2014 – 07/2016   Tunis, Tunisia.

SKILLS

- **Programming languages**: Python, C/C++, VB.NET, MATLAB.
- **Databases and DBMS** : SQL, NoSQL, MongoDB, Microsoft SQL Server.
- **Operating systems**: Linux (Ubuntu and Xubuntu), Windows.
- **Framework and methodologies** : Scrum, V-Model.
- **Other skills**: Git, JIRA, Qt5, Microsoft Office, Confluence, Jupyter notebook.

LANGUAGES

- Arabic : Mother Tongue.
- English: Full professional proficiency.
- French: Full professional proficiency.
- German: Elementary (A1 certified).

CERTIFICATIONS

- Data Insignt Program in Data Science – 09/2021. – 09/2022
- Scrum Fundamentals –SCRUMstudy – 05/2020.
- Python Fundamentals Track – Datacamp – 04/2021.
- MTA: Database Fundamentals- Microsoft – 2018.
- Introduction to Shell – Datacamp – 08/2021.

COMMUNITY LIFE

- Attendee at « World Youth Forum » - Egypt 01/2022
- Entrepreneur Student status – Carthage University - 02/2021.
- Chairwoman of IEEE Woman In Engineering Enicarthage – 2018.
- Co-Founder of Chackathon (Carthage Hackathon) – National Programming Competition - 2018.

INTERESTS

Reading, Sport, Science fiction, Entrepreneurship.