RAYEN TAJOURI

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SOFTWARE ENGINEER

Versatile software engineer with 2 years of software development experience including 1 year as professional and 1 year internship and academic; developing, maintaining, and deploying cutting-edge software solutions using C#, .NET, Angular and MySQL. Hands-on in the industrial and cryptocurrency industry while adapting an agile development methodology. Good understanding of machine learning and deep learning tools like PowerBI, python and Jupyter Notebook.

Microservices ● Machine Learning ● Object-oriented programming ●
Software Development Life Cycle ● Database Design ● Algorithms and Data Structure

Languages: Python, C#, PHP, Java
Web: HTML, CSS, JSON, XML
Web Services: RESTful APIs, Microservices Architecture, CQRS
Web/App Servers: Apache, Nginx, Tomcat, AWS
Frameworks: .NET, Angular, Symfony, Kafka
Databases: MySQL, Oracle, ORM, MongoDB, HBase
Design Patterns: MVC, CQRS
SDLC: Agile, Scrum
Tools: Anaconda, Visual Studio, IntelliJ IDEA, Eclipse, Visual Studio Code, PHPStorm, Git, GitHub, JUnit, Docker, Jnekins, Jupyter Notebook, Netbeans, Swagger, CodeBlox, StarUml
Platforms: Windows, Linux, Cloudera, Centos, Kali Linux
Big Data: Hadoop, Pig, Spark, ElasticSearch, Map reduce, sqoop, flume.

PROFESSIONAL EXPERIENCE

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

POULINA GROUP HOLDING, Tunis, Tunisia ● 06/2021 – 07/2023
Mass consumer goods

Software Engineer (06/2022 – 07/2023)
Developed Full Stack Application and integrated Machine Learning Modules.
- Developed a timesheet functionality module using C# and .NET, digitalizing employee time management, significantly reducing time and cost.
- Designed the database for the time functionality application using MySQL, achieving seamless data storage and retrieval.
- Implemented a data analysis tool for data visualization using PowerBI, reducing decision-making time by 25%, resulting in 100% accuracy of information about customers.
- Built the user interface for the application using TypeScript and Angular, increasing the user experience for our customers significantly.
- Integrated a machine learning based task recommendation system using Python and Jupyter Notebook, decreasing development time by 35%.

__Technologies Used:__ C#, .NET, TypeScript, Angular, Python, MySQL, SQL server, Swagger, Git, PowerBI, Jupyter Notebook

Data Science Intern (04/2022 – 06/2022)
Developed predictive models using advanced algorithms like LSTM and KNN, while also handling data cleaning, visualization, and parameter optimization for the On-chain analysis cryptocurrency project.
- Played a pivotal role in the On-chain analysis cryptocurrency project, focusing on predicting cryptocurrency prices using machine learning and deep learning techniques.

- Responsible for comprehensive data cleaning and advanced data visualization techniques to prepare datasets for analysis and conducted thorough grid searches to optimize model parameters for improved accuracy in price prediction.
- Experimented with various algorithms, including LSTM and KNN, within the domain of time series analysis to develop robust models.
- Successfully deployed a predictive model demonstrating a 15% improvement in accuracy compared to baseline models.
- Showcased proficiency in navigating complex datasets and applying cutting-edge machine learning techniques to drive informed decision-making in the dynamic cryptocurrency market.

Technologies Used: *Python, Anaconda, Jupyter Notebook*

Web Developer Intern (06/2021 – 09/2021)
Develop Full Stack Application
- Developed an Industry Waste Management functionality module using C# and .NET, significantly reducing time and cost.
- Designed the database for the Waste Management functionality application using MySQL, achieving seamless data storage and retrieval.
- Built the user interface for the application using TypeScript and Angular, increasing the user experience for our customers significantly.

Technologies Used: *.Net, Angular, Swagger*

ACADEMIC PROJECTS

Maharishi International University (2024) Big Data Project: Implemented a stock data system with Kafka for real-time ingestion into Spark Streaming, storing in HBase and HDFS. Applied Spark SQL for analytics and used Jupyter Notebooks for data visualization, exploring stock insights. Tools used: Jupyter, Cloudera, Kafka, Spark Streaming, HBase, Spark SQL, HDFS.

Maharishi International University (2023) Automatic track attendance: Led the creation of an AI-based Automatic Attendance System using machine and deep learning for accurate face recognition and tracking. This efficient solution simplifies attendance management across various settings. Used: Python, Deep Learning, Machine Learning.

EDUCATION

Master's in Computer Science
(In progress via distance education; expected completion 04/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Enterprise Architecture, Algorithms, Artificial Intelligence, Big Data Technologies

Bachelor of Science in Computer Engineering with a Specialization in Data Science
ESPRIT, Ariana, Tunisia (2023)