

Yazid Slimani

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PROFESSIONAL EXPERIENCE

Founder & Product Owner – Gostu | 2023 – Present

- Achieved national recognition by securing the first "Label de projet innovant et startup" awarded by the Ministry of Higher Education and Scientific Research.
- Oversaw the deployment of Gostu's web platform and Android application, ensuring seamless user experience and accessibility.
- Led a multidisciplinary team of developers and designers to develop a comprehensive platform featuring forums, resources, AI-powered assistants, and access to private tutoring.

Intern – ENMSR (NOC) Department | Sept 2024 – Oct 2024

- Participated in technical field interventions involving FTTX deployment, voice line maintenance, and 4G network diagnostics.
- Gained practical experience in monitoring and maintaining national network infrastructure, working with systems like Fiberhome, ZTE, Nokia, and Huawei.
- Enhanced account type management in a PHP-based internal platform, optimizing database queries by 60%.

Freelance Experience | 2022 – 2023

EDUCATION & TRAINING

National Higher School of Artificial Intelligence | 2021-2026

- “Ingéniorat” (Algerian 5-year undergraduate degree) in Artificial Intelligence
- Relevant coursework: Software Engineering, Networks & Protocols, Wireless Network Systems, Web Development, NLP, Deep Learning, RL, Computer Vision, Machine Learning, Data Mining, Time Series Analysis & Classification, Operational Research, Computer & Network Security, Project Management.
- Fundamentals of Deep Learning | Nvidia
- Introduction to Docker
- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization

PROJECTS

Gostu.net | Educational Platform Startup

- Developed an EdTech platform with live collaborative study rooms
- Implemented subscription models with tiered access levels and secure payment processing
- Built interactive forums and study materials repository serving Algerian students
- Technologies: React, WebRTC, Laravel, Meilisearch, Tailwind

Tali3 | Library Management System

- Designed and developed a full-stack application along with my team for tracking book inventory and user borrowing
- Created dashboard with analytics on borrowing patterns and popular book categories
- Technologies: React, MySQL, Java, REST APIs

Network Security Attack Implementation

- Developed practical demonstrations of common network attacks for educational purposes
- Implemented Ping of Death, SYN flooding, and ARP spoofing attacks with detailed documentation
- Technologies: Python, Scapy, Wireshark, Linux, Socket Programming

Neural Network Threat Detection (Network Security)

- Created an AI-powered system that detects and prevents network attacks in real-time
- Implemented hierarchical classification to distinguish between benign traffic and specific attack types
- Achieved 99% accuracy in identifying malicious network patterns using XGBoost
- Technologies: Python, XGBoost, SQLite, Pandas, Scikit-learn

Temporal Analysis of Chickenpox Incidences

- Analyzed epidemic data using ARIMA/SARIMA models to forecast disease outbreaks
- Translated statistical findings into public health recommendations
- Technologies: Python, Statistical Modeling, Time Series Analysis

Medical Prescription Analysis

- Analyzed 93,000+ medical prescriptions to identify patterns in medication prescribing
- Applied association rule mining to discover relationships between different medicines
- Created recommendation system for pharmacists based on prescription patterns
- Technologies: Python, Scikit-learn, Pandas, Association Rules, Clustering

NLP Cyberbullying Detection

- Built NLP system to detect cyberbullying in Algerian dialect with 89% accuracy
- Implemented custom text preprocessing for Arabic and French dialectical variations
- Developed lightweight model suitable for edge deployment on social media platforms
- Technologies: NLP, Python, TF-IDF, Random Forest, Text Classification

Semantic Search Engine

- Engineered search engine using transformer-based embeddings to understand semantic meaning
- Created Streamlit interface for intuitive user interaction with search functionality
- Improved search relevance by 42% compared to traditional keyword-based approaches
- Technologies: Python, BERT, Sentence-Transformers, Streamlit

AI Problem Solving Toolbox

- Played a key role in the development of a comprehensive Artificial Intelligence Problem Solving Kit.
- Implemented the graph search problem class, empowering the application to generate graphs and leverage informed, uninformed, and local search algorithms like A*, Iterative Deepening, and Hill Climbing.

TECHNICAL SKILLS

- Languages & Frameworks: Python , PHP, JavaScript, SQL, Java, C++, Laravel, Dart, Flutter, React.
- Tools & Libraries: Pytorch, Cuda, TensorFlow, CV2, Ros2, Scikit, Docker.
- Database & APIs: PostgreSQL, MySQL, MariaDB, MongoDB, REST APIs, GraphQL.
- Other: Git/GitHub, Figma, Performance Optimization.
- Soft Skills: Problem Solving, Self-learning, Adaptability, Teamwork, Project Management, Time Management.