



Taieb Slama

SOFTWARE ENGINEERING, DATA SCIENCE AND ENGINEERING STUDENT · MASTER'S STUDENT

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Education

Bachelor in Software Engineering, Data Science and Data Engineering

Tunisia

NATIONAL INSTITUTE OF APPLIED SCIENCE AND TECHNOLOGY (INSAT)

Sep. 2017 - Present

- Courses: Data Science, Machine Learning, Deep Learning, Big Data, Business Intelligence, Software Architecture and Design, Software Development and Quality, DevOps, Parallel Computing, Formal Languages and Compilation, Blockchain, Distributed Systems, etc...

Master's Degree (M2) in Information Processing and Complexity of Living Systems

Tunisia

NATIONAL ENGINEERING SCHOOL OF TUNIS (ENIT)

Sep. 2021 - Present

- Courses: 3D Images, Image Segmentation, Video Analysis, Perceptual Aspects in Audio Processing, Audio Signal Processing and Learning Algorithms, Random Signal Representation, Complex Dynamical Systems, Estimation and Detection, Machine Learning, etc...

Skills

Programming Languages	C#, Python, R, HTML, CSS, JavaScript, C++, PHP, Dart, Java
Frameworks & Technologies	.NET, Unity, Angular, ReactJS, NodeJS, NestJS, Flask, Laravel, Flutter, MySQL, PostgreSQL, MongoDB
Other Used Tools	Jupyter, GitLab, Jenkins, Docker, Kubernetes, Unreal Engine, Blender, Hadoop, PowerBI, Linux, Nginx, Jira
Spoken Languages	English: Professional Proficiency French: Native Arabic: Native German: Elementary Proficiency

Professional Experience

Data Science Intern

Tunisia

EXPENSYA

June 2021 - Sep. 2021

- Worked on a feature allowing users to Fast Scan their Vehicle Registration Documents to automatically create new Vehicles with the needed data. I also wrote the necessary Tests to ensure my work is functional while keeping the Code Coverage high.
- Used Technologies: .NET and C# using Visual Studio, SQL Database, AngularJS, SonarQube, Git and Azure Devops.

Part-time FullStack Developer and DevOps Engineer

Tunisia

INFRAPLUS

Nov. 2020 - May 2021

- This Part-time job consisted mainly in migrating the website worked on during the Internship from a Monolithic to a Microservices Architecture. This resulted in a better load balancing of the services which doubled the response speed of the main features and made the website better stress test.
- Used Technologies: Angular, NodeJS, ExpressJS, PostgreSQL, Docker, Gitlab CI/CD, Nginx webserver, Kong Gateway, Linux and Jira.

FullStack Developer and DevOps Intern - [Link to the Internship Report PDF](#)

Tunisia

INFRAPLUS

May 2020 - Oct. 2020

- Contributed in creating a Website where companies can post their internship opportunities and students can browse them and send in their application. I took charge in the Design aspect and the Web technology choices to ensure performance, maintainability and search engine optimization. Every taken step had to be documented.
- Used Technologies: Angular, NodeJS, ExpressJS, PostgreSQL, Docker, Gitlab CI/CD, Linux and Jira.

Other Projects

(Click on project title to open Github Repository)

Fuzzy Isolation Forest - [Link to Project Report PDF](#) A Data Science Research Project aiming to study the Isolation Forest Algorithm and its anomaly isolation, then compare how efficient this approach is when dealing with Fuzzy data and rules instead of the classic Crisp data. I mainly used Python and Google Colab Notebooks for this Project.

Reinforcement Learning Assisted Blackjack - [Link to try the Game](#) A personal project that is both about creating a Blackjack visual game and training an A.I for decision making in Blackjack based on the Q-Learning Method. Two techniques are implemented to train the Model: Monte-Carlo Sampling Control and Temporal Difference Bootstrapping. Unity was used for the Game's Frontend and Python Notebooks to train the Model then converted to Flask as a Backend for the game.

End-to-End Chat Platform This project aims to create a Peer-to-Peer chat tool that applies all the needed Security principles needed to make it an End-to-End messaging: Using NestJs, we created a Users Registry, a Certificate authority server and a communication server that creates Websockets. The End-to-End is insured by a pair of keys between users to encrypt and decrypt privately. We also used VueJS for the Frontend.

Extracurricular Activity

2020 - 2021	Head of Project Department , Junior Enterprise INSAT	INSAT
2019 - 2020	Volunteer , AIESEC LC University	Tunisia
2017 - 2021	Member and Webmaster , ACM INSAT Student Chapter	INSAT