



# Taieb Slama

SOFTWARE ENGINEERING AND DATA SCIENCE 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: Web Development, Mobile Development, Software Quality, Software Architecture and Design, Human-Machine Interface, DevOps, Parallel Computing, Distributed Systems, Blockchain, Cybersecurity, Information Systems Audit, Data Science, Machine Learning, Deep Learning, Big Data, Business Intelligence, Formal Languages and Compilation, Networks and Computer Architectures 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 Tools

JavaScript, TypeScript, Angular, React, React Native, Vue, NodeJS, NestJS, C#, .NET, Python, Flask, Selenium, BeautifulSoup, HTML, CSS, SCSS, PHP, Laravel, Symfony, Java, SpringBoot, Dart, Flutter

### Databases

SQL, MySQL, PostgreSQL, NoSQL, MongoDB, Oracle

### Other Used Tools

Visual Studio, GitLab CI/CD, Jenkins, Docker, Kubernetes, Linux, Nginx, Ansible, Hadoop, MapReduce, Apache, Spark, Kafka, RabbitMQ, PowerBI, SonarQube, Postman, Talend, Camunda, Matlab, Jira, Azure DevOps, Trello

### Spoken Languages

**English:** Professional Proficiency | **French:** Native | **Arabic:** Native | **German:** Elementary Proficiency

## Professional Experience

### Data Science Intern

Tunisia

EXPENSYA

June 2021 - Sep. 2021

- I developed a feature allowing to scan Vehicle Registration Documents in order to extract useful information.
- I also created the necessary Unit tests and End-to-End tests allowing to ensure the proper functioning on the module.
- I integrated my work to the Expensya website which automated the vehicle creation process for the users.
- **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 Architecture to a Microservices Architecture based on the business processes.
- The changes made resulted in a better load balancing of the services which doubled the response speed of the main features and made the website better at stress testing.
- I added a module for Profile Management and CV creation.
- **Used Technologies:** Angular, NodeJS, ExpressJS, Selenium, PostgreSQL, Docker, Gitlab CI/CD, Nginx, Kong Gateway, Linux and Jira.

### FullStack Developer and DevOps Intern

Tunisia

INFRAPLUS

May 2020 - Oct. 2020

- I contributed in the Development of a website allowing companies to post their internship positions, enabling students to apply.
- I started by studying the project feasibility and comparing it to similar existing solutions, creating a clear direction for the project.
- I was in charge of the Design aspect and web technologies related decisions, aiming to enhance the performance and the maintainability to the fullest.
- Every step made had to be documented thoroughly.
- **Used Technologies:** Angular, NodeJS, ExpressJS, PostgreSQL, Docker, Gitlab CI/CD, JWT, Linux and Jira.

### Mobile / Flutter Developer

Tunisia

JUNIOR ENTREPRISE INSAT

Sep. 2019 - July 2020

- I took part in Designing, Developing and the Hosting of multiple Mobile projects.
- The Mobile projects worked on where Hybrid as the aim was creating apps for both Android and IOS.
- **Used Technologies:** Flutter, Dart, Laravel, NodeJS, ExpressJS, MySQL, MongoDB, Git, Jira and Trello.

## Other Projects

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(Click on project title to open the corresponding Github Repository)

**The FTA website** A project aiming to create the Tunisia National Athletics Federation's website, which represents the Tunisian athletes. This platform contains all the sports related updates, scores, events dates, official documents, etc... The used tools were Angular, NodeJS, MongoDB, Gitlab and Jira.

**Peer-to-Peer Chat Platform** A project aiming to create a private messaging service between two peers: Using NestJS, we created a users LDAP register, a Certification Authority and a communication server to manage websockets. The End-to-End interaction is ensured by generating a pair of keys to encrypt/decrypt messages. We also used VueJS for the Frontend.

**The INSAT website** Aiming to renovate our University's website, we created this new platform using ReactJS/NextJS for Frontend, NodeJS/ExpressJS for Backend, MySQL, Gitlab and Jira. We also created an Admin Dashboard that uses a CMS system to make adding, deleting or modifying content easier from the main website.

**The JE Inat website** A website created for our client, the Junior Enterprise Inat, as an entity and present their services, activities, updates and workshops. This website was created and maintained using Angular, SpringBoot, MySQL, Gitlab and Trello.

**Reinforcement Learning Assisted Blackjack** 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.

**The REMAX mobile app** A mobile application to manage the assignment of Remax's customer requests to the adequate company branch. It also allows the admins to monitor the entire process and track the progress. The used tools are Flutter, Laravel, MySQL, Github and Trello.

## Extracurricular Activity

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### Head of the Project Department

JUNIOR ENTREPRISE INSAT

INSAT

July 2020 - May 2021

- Establish the Project Department strategy and Define the provided services.
- Track, alongside Senior members, the improvement of the newest members and help them improve their skills.
- Meet potential clients, understand their requests and study the technical feasibility of each project.
- Overall supervising the projects progression and the clients satisfaction and feedbacks.
- Contribute in the planning and organization of the two first editions of **INSAT's Forum**.

### Sponsoring Manager

WINTER CUP 2020

INSAT

Jan. 2020 - Feb. 2020

- Ensure all the needed logistics for this competitive programming event: Lunch and snacks for all the participants, money prices, medals and the trophy, printing the problem-sets and the certifications, etc...
- Look for Sponsors and Partners.
- Look for the best deals and offers from providers.

### AIESEC Local Committee University

VOLUNTEER

Manar University

Sep. 2019 - Aug. 2020

- Find volunteering positions in Tunisia in collaboration with Non Governmental Organisations.
- Contact other international AIESEC committees who send us potential candidates for the found volunteering positions.
- Conduct interviews for the candidates and help the selected ones during the process.
- Welcome and guide the volunteers upon their arrival to Tunisia.

### Member and Webmaster

ACM INSAT STUDENT CHAPTER

INSAT

Sep. 2017 - Present

- Participate in the competitive programming competitions.
- Redesign and maintain the association's website.
- Contribute in the organisation of the different events.

### Ambassador and Staff

AERODAY 2018

INSAT

Sep. 2017 - Aug. 2018

- Market the event on a national and international scale to attract new participants and potential sponsors.
- Prepare the needed security procedures to ensure the event goes smoothly and avoid accidents.