

# Ala Bouali

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**Full-stack web developer  
&  
Ethical hacker**

## HARD SKILLS

- Penetration Testing : Nmap, BurpSuite and manual testing .
- Frameworks : Flask ( 3 years of experience ) , Odoo ( 2 years of experience ) , Django / FastAPI / Symfony ( less than 1 year of experience each ) , ReactJS / NextJS ( followed simple tutorials but no big projects yet ) .
- Programming languages : Python / PHP ( 5 years of experience ) , JS / Java ( 2 years of experience ) , C / C# ( 1 year of exp. in college ) .
- DevOps version control tools : Git , Github .
- Software architectural patterns : MVC .
- Web servers : Apache .
- Cloud Platforms : Google Cloud Platform ( GCP ) .
- Deployed web applications on : Heroku , Namecheap .
- Content Management Systems ( CMS ) : WordPress ( <https://alabouali.com> ) .
- Desktop applications : Tkinter .

## SUMMARY

I am a self-taught programmer (since 2017) / pentester (since 2018) / freelancer (since 2019) who loves pentesting, coding, debugging and fixing problems ! I just find that amusing and I try to make living out of it. I usually work on projects alone and take care of everything, but also, I can work with a team where I have assigned to specific tasks to do by myself. I am a communicative person and I try my best to deliver the best and optimized version of my work on time.

## EDUCATION

- Computer Science at ISIM Sfax : 2018 - 2022 .
- Bachelor Degree in Experimental Science (2018) : Ali Bourguiba High School .

## CERTIFICATES

- [Learning Python](#)
- [Learning PHP](#)
- [Learning Java](#)
- [React.js Essential Training](#)
- [Flask Essential Training](#)
- [Building RESTful APIs with Flask](#)
- [Full Stack Web Development with Flask](#)
- [Django Essential Training](#)
- [Ethical Hacking: Hacking Web Servers and Web Applications](#)
- [Python for Security](#)
- [Secure Coding in Python](#)
- [Cybersecurity for IT Professionals](#)

## EXPERIENCE

### INTERNSHIPS

- [ISIM Sfax](#) : Performed a penetration test against the university's website and found multiple vulnerabilities as a part of an internship .

### WORK ( AS A FREELANCER ) : 2019 – 2022

- [NMTTC - National Microsoft Technologies Camp](#) : Performed a penetration test against their website after taking permission from the president of Microsoft Club ISIMS and reported multiples vulnerabilities.
- [Area-01](#): The site was under a DDoS attack and I had been contacted to provide a solution and protect the site. The attack was mitigated successfully .
- Techcom Chaffar : Installing Odoo on Ubuntu 20.04 LTS VPS, manage the server, secure it, configuring the Odoo application and install additional modules .
- Piedra: Installing Odoo on Windows server, manage the server, secure it, configuring the Odoo application and install additional modules .

- Operating systems : Linux and Windows .
- Database management : SQLAlchemy ( SQLite , MySQL , MariaDB , Oracle , PostgreSQL & MS SQL ) , PyMongo ( MongoDB ) , Firebase ( configurations and : Users, Storage and Real-time Databases management ) .
- API development and integration: RESTAPI and JWT Authentication .
- WebSockets ( integrated with FastAPI in 1 project ) .
- Networking: Scapy ( capturing , analyzing and modifying network packets and performing attacks ) .
- Content Delivery Network ( CDN ) and DDoS protection services : CloudFlare .
- Understanding Basics : Docker, python virtual environment & kubernetes .
- Other skills : selenium, web scrapping & automation .

## SOFT SKILLS

- Problems solving .
- Creative thinking .
- Flexible, adaptive and communicative person .
- High work ethics .

## LANGUAGES

- Arabic
- English
- French

## LINKEDIN BADGES : [Ala Bouali](#)

- Python / PHP / REST APIs : in top 5% of people who took the assessment .
- MySQL / Django : in top 30% of people who took the assessment .

- Provide services to people to create small web applications with Flask, fix their scripts (python mainly), fix bugs, code review and secure their web applications .

## PROJECTS

### WEB APPLICATIONS

- A platform for a training center to manage their users ( trainers and participants ) each have their permissions and actions, with an administration panel to manage in addition to the users: courses, training sessions, posts, events ... It was created using Flask, SQLAlchemy , HTML & Tailwind ( CSS ) . Default admin account: admin / admin . Link: <https://coursescenter.herokuapp.com/>
- A data analysis web application that allows to:
  - 1- Upload the Excel files and save them as history and analyze them to present them in the form of a histogram of different TOP n faults according to CreateTime.
    - \* ERROR\_Log (TOP n of ScriptNameUser according to CreateTime (the choice of the date interval and n entered by the User from a form))
    - \* REW\_Log ((TOP n of KSK according to CreateTime) (TOP n of OperatorComment according to CreateTime))
    - \* ERROR\_Log and REW\_Log show errors in the company's production system. These analyzes facilitate decision making.
  - 2- Manage the comments (OperatorComment) which present the problem identified by the employees and display it in the form of histograms of different TOP n faults:
    - o Purify the comments.
    - o Preparation of standard comments.
    - o Replace old comments with prepared comments.
    - o Display comments as a histogram.
  - 3- Authorize the administrator to add new users (employees) and grant them each their access rights.
  - 4- Allow users to manage their account.
 Used: Flask , SQLAlchemy , Matplotlib , HTML , Tailwind ( CSS ) .
- **Stajili** : a search engine to scrape and present internships offers for college students to facilitate their search and save time. Created with "Flask-man": Flask , HTML , CSS , Javascript and firebase for users and real-time database management .  
Link : <https://stajili.herokuapp.com/>  
Screen record: <https://vimeo.com/689000991/b50640aca1>
- **Bane's online web scanner** : an online vulnerability scanner based on my previous project "bane". It takes your target page and performs the preferred scan then represents the scan result on a HTML table .  
Link : <http://bane-demo.herokuapp.com/>  
Screen\_record: <https://vimeo.com/689015484/cd688fb0f9>
- **Offices' management application for the post office tunisia** : I used Flask on the back-end , HTML and CSS for the front-end and SQLite as a database. This is a test account on the live test version of the application .  
Matricule: 111111  
Password: test  
Region: Nabeul  
Link : <https://gestion-bureaux-poste.herokuapp.com/connexion.html>  
Screen record: <https://vimeo.com/688959163/dd967f3b92>

## HONORABLE MENTIONS FOR MY PROJECTS

- [Best CSRF scanners \( bane \) .](#)
- [All in one hacking framework For red team Pentesting .](#)
- [Best 4 IoT Hacking Python Repos \( bane \) .](#)
- [Best XSS scanners \( bane \) .](#)
- [Best Remote Code Execution Open Source Projects \( bane \) .](#)
- [Best Bruteforce Attacks Open Source Projects \( bane \) .](#)
- [Best Clickjacking Open Source Projects \( bane \) .](#)
- [Mentioned at Huawei's forms as an alternative to telnetlib to remotely control routers via telnet protocol \( xtelnets \) .](#)

- **School-uploads** : a files sharing and storage ( on firebase ) for a defined period of time. You upload any files up to 300Mb and the application will keep them there with your name until a date of your choice .  
Link : <https://school-uploads.herokuapp.com/>  
Screen record: <https://vimeo.com/689020710/3cc3331e27>

## PERSONAL FRAMEWORKS

### SECURITY

- **Bane** : ( 135 STARS / 39 FORKS ) a pure python module that I have created to automate and facilitate the process of finding web and networks vulnerabilities with no external pentest tools needed .  
<https://github.com/AlaBouali/bane>
- **Sanitizy** : another python module to provide additional layer of security for your python projects by providing classes with static functions to sanitize, filter and block malicious inputs .  
<https://github.com/AlaBouali/sanitizy>

### WEB DEVELOPMENT

- **Flask-man** : python module to create and manage your Flask projects more easily by creating necessary files and databases, tables, codes and installing requirements for them. It saves time and facilitate the project's development thanks to the python files containing each useful functions, classes and variables predefined, well organized and named ! It have everything necessary to create large projects .  
[https://github.com/AlaBouali/flask\\_man](https://github.com/AlaBouali/flask_man)

### NETWORKING / IoT

- **Xtelnet** : a python module to authenticate, execute commands and receive output in simpler way over telnet protocol with 1 or multiple machines remotely in parallel (a better replacement for "telnetlib") . Best used for IoTs for better and smoother control. It works perfectly with almost any telnet server !  
<https://github.com/AlaBouali/xtelnets>

## AWARDS

- Thanked by the Administration Of [Sup'Com](#) for finding multiple vulnerabilities in their website ( 2022 ) .
- Thanked by the Administration Of [ISIM Sfax](#) for finding multiple vulnerabilities in their website ( 2021 ) .
- Found 2 valid abuse risk type bugs on Google ( 2020 ) .
- Rewards on Hackerone: [Ala Bouali](#) .