Nasreddine **Bac Ali**

ENGINEERING STUDENT IN COMPUTER SCIENCE
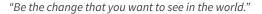
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"Be the change that you want to see in the world."

Summary

Currently an engineering student at the National Engineering School of Sousse; at least one year of experience in back-end, web development and embedded systems; super nerd who loves competitive programming, Linux and likes to lend a hand to anyone who needs help; interested in developing a better problem-solving method for challenging tasks and learning new technologies and tools.

Education

National Engineering School of Sousse   *Sousse*

APPLIED COMPUTER ENGINEERING   *SEP. 2016 - ONGOING*

Preparatory Institute for Engineering Studies of El Manar   *El Manar, Tunis*

PREPARATORY DIPLOMA IN MATHEMATICS AND PHYSICS   *SEP. 2014 - JUNE. 2016*

Ibn Rochd High School   *Chebba, Mahdia*

BACHELOR'S DEGREE IN MATHEMATICS 2014   *SEP. 2010 - JUNE. 2014*

Skills

Programming   Java, JEE, C/C++, C#, Python, Node.JS, LaTeX
Web   Angular, .Net, Express, Flask, HTML5, CSS
Languages   Arabic, English, French

Experience

Personal Website   *ENISo, Sousse*

WEB APP   *OCT. 2018 - NOV. 2018*

- It is a web application designed for personal CV/Resume and projects presentation. It is composed of a CV presentation and a dashboard to manage projects.
- Techs: NodeJS, ExpressJS, MongoDB, Git, Jenkins, CI/CD.

Project Management Software   *ENISo, Sousse*

WEB APP   *NOV. 2018 - ONGOING*

- It is a web application designed for Orange Club ENISo projects management. It is composed of three Dashboards: Scrum Dashboard, Gantt Dashboard and Cost Dashboard.
- Techs: Java 8, Spring IoC, Spring Boot, JPA, EJB, SOAP, Postgres, MQTT, Angular 6, Git, Maven, Servlet.

Mobile Application for ACM ENISo Club   *ENISo, Sousse*

RESTFUL API & ANDROID APP   *JUIN. 2018 - ONGOING*

- It is an Android application dedicated to ACM ENISo Club members so that they can follow their progress in training for programming competitions such as Sousse Collegiate Programming Contest (SoCPC) and Tunisian Collegiate Programming Contest (TCPC).
- RESTful API : Spring Boot, Spring MVC, Spring Data, Spring Security, MariaDB.
- Android App : Android Studio, Room, Retrofit.

Temperature Control System   *ENISo, Sousse*

RESTFUL API & WEB APP   *OCT. 2017 - DEC. 2017*

- A network of Xbees dedicated to record distant sensors temperatures and send them to a Flask server of the web application so that the user can observe, control and maintain the sensors.
- RESTful API : Python2.7, Flask, MySQL.
- Web Dashboard : Angular5 (ngx-admin).
- Hardware : Raspberry Pi3, Arduino UNO, Xbee S2, DHT11.

Geolocation of Gateways *SAGEMCOM, Tunis*
RESTFUL API & WEB APP *JUL. 2017 - AUG. 2017*

- It is a web application designed for present a huge numbers of Gateways as a markers and clusters in a geographic map.
- RESTful API : Spring Boot, Spring MVC, Spring Data, Elasticsearch.
- Web App : Angular2, Leaflet, TileServer-GL.

Eye Tracking Project *ENISo, Sousse*
DESKTOP APP - PROJECT PROPOSED BY FAURECIA *FEB. 2017 - MAY. 2017*

- It is a Windows desktop application designed for autonomous cars as a cinema screen. It is composed of an interface controlled with eyes movement, a seating arrangement system and a movie recommendation algorithm using Hadoop.
- Techs : Java, C#, C++, Python, Flask, Hadoop, Tomcat.
- Hardware : Tobii EyeX, Raspberry Pi3.

Extracurricular activities

ACM ENISo Club *Sousse, Tunisia*
PRESIDENT FROM 2016 TO 2018 *SEP. 2016 - JUN. 2018*

- Train club members in competitive programming.
- Prepare for regional and national competitions.
- Participate in several programming competitions.

ENISo TEAM *Sousse, Tunisie*
MEMBER *SEP. 2017 - JUN. 2018*

- Design and build robots to do different tasks.
- Participate in several robotics competitions.

Achievements

INTERNATIONAL

2018	**Finalist**, ACM Arab Collegiate Programming Contest - ACPC 2018	*Sharm El Sheikh, Egypt*

NATIONAL

2018	**Finalist**, ACM Tunisien Collegiate Programming Contest - TCPC 2018	*Sousse, Tunisia*
2017	**Finalist**, ACM Tunisien Collegiate Programming Contest - TCPC 2017	*Tunis, Tunisia*
2018	**1st place**, ACM Sousse Collegiate Programming Contest - SoCPC 2018	*Sousse, Tunisia*
2017	**3rd place**, ACM Sousse Collegiate Programming Contest - SoCPC 2017	*Sousse, Tunisia*
2018	**3rd place**, ACM Sfax Collegiate Programming Contest - SfaxCPC 2018	*Sfax, Tunisia*
2018	**1st place**, Summer Robot 4 - Hackathon	*Nabeul, Tunisia*
2018	**4th place**, Chackathon « Carthage Hackathon »	*Tunis, Tunisia*
2018	**3rd place(Tunisia)**, Google Hash Code - Online Qualification Round 2018	*Sousse, Tunisia*
2018	**8th place(Tunisia)**, IEEEXTREME 12.0 - 24H Programming Contest	*Sousse, Tunisia*
2018	**1st place**, ENIMROBOT 4 - All Terrain Robot	*Monastir, Tunisia*
2018	**3rd place**, TUNIROBOTS - 24H Challenge	*Tunis, Tunisia*

Committees

2018	**Organizer**, ACM Tunisian Collegiate Programming Contest - TCPC 2018	*Tunisia*
2018	**Organizer**, ACM Sousse Collegiate Programming Contest - SoCPC 2018	*Tunisia*
2018	**Media Director**, ENISo Smart Challenge V4	*Tunisia*
2017	**Organizer**, ACM Sousse Collegiate Programming Contest - SoCPC 2017	*Tunisia*