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1 General information

My name is **Ouail Chems-Eddine DERGHAL**, I am a 22 years old computer science student at *Faculty of new technologies* in *University of Constantine 2*, specialty of **NETWORKS AND DISTRIBUTED SYSTEMS**. I am interested in *system administration* and *development operations*.

2 Education

- Master's degree in **NETWORKS AND DISTRIBUTED SYSTEMS**
📍 *University of Constantine 2* [📅 2020 - today]
- Bachelor degree in **SOFTWARE ENGINEERING**
📍 *University of Constantine 2* [📅 2017 - 2020]
- Baccalaureate in **EXPERIMENTAL SCIENCE**
📍 *Ibn Badis high school, Constantine* [📅 2014 - 2017]

3 Natural languages

- 🇲🇦 **Arabic** : native language
- 🇬🇧 **English** : intermediate
- 🇫🇷 **French** : fluent

4 Technical skills

Machine languages











Programming languages

- General knowledge in ☞ **Java** programming language
- General knowledge in 🐘 **PHP** programming language
- General knowledge in **Go** programming language
- Superficial knowledge in **C** programming language
- Intermediate level in 🐍 **Python** programming language
- Intermediate level in 📄 **JavaScript** programming language
- Intermediate level in >_ **BASH** scripting language







Other languages

- Prior experience with *HTML* and *CSS*
- Prior experience with *Markdown* markup language
- Prior experience with *JSON*, *YAML* and *TOML* data serialization languages
- Prior experience with *INI* configuration files
- Prior experience with writing documents and presentations with *LaTeX*

Frameworks and libraries

- Web frameworks :
 - Intermediate level in *Laravel* 
 - Intermediate level in *Django* 
- Back-end frameworks :
 - Intermediate level in *Express* 
 - General knowledge in *Flask* 
 - Superficial knowledge in *Fiber*
- Front-end frameworks :
 - Prior experience with *Bootstrap* 
 - General knowledge in *React* 
 - General knowledge in *Vue* 
- Unit-testing frameworks :
 - Prior experience with *Jest* unit-testing framework for  JavaScript
 - Prior experience with *unit test* framework for  Python
 - Prior experience with *Junit* unit-testing framework for  Java
- Other frameworks and libraries :
 - Prior experience with *Google Earth Engine* for planetary-scale analysis
 - Prior experience in web scraping with *Beautiful Soup* and *Selenium* libraries
 - Prior experience with *Numpy*, *Pandas* and *Matplotlib* libraries for data analysis

Databases


- Good understanding of the relational model
- Intermediate level in *SQL* query language
- Prior experience with  *MySQL* and  *MariaDB*
- General knowledge in  *Oracle Database*
- Prior experience with *Object Relational Mappers*
 - *Objection* ORM for  Javascript
 - *Eloquent* ORM for  Laravel web framework
 - *Django ORM* for  Django web framework

GNU/Linux system administration



- Solid understanding of file permissions and ownership
- Good understanding of user management
- Familiarity with *vim* editor
- Familiarity with the *terminal multiplexer*
- General knowlege in *Apache* and *Nginx* web server
- Prior experience in configuring *firewalls*
- Prior experience with *OpenSSH*
- Prior experience in setting up *FTP servers*
- Prior experience in setting up *Samba servers*

- Prior experience in setting up *VNC servers*




Devops tools

- Prior experience with *Ansible* and configuration management
- General knowledge about *Vagrant* and virtualisation
- General knowledge about  *Docker* and containerization

Version control and collaboration



- General understanding of **git** version control system
- General knowledge in setting up **git** servers
- Prior experience in setting up *Gitea* self-hosted **git** service
- Prior experience in collaboration on  *Gitlab*
- Prior experience with  *Github* platform

Other skills






- General knowledge about  *networking and switching* concepts
- Good understanding of **object-oriented** programming model
- Good understanding of *REST* architecture
- Solid understanding of **MVC** design pattern
- Good understanding of *UML* modeling language and *PlantUML* tool
- Good understanding of basic  cryptography concepts
- Prior experience with *GnuPG* protocol
- Prior experience with *OpenSSL* toolkit
- General knowlege about  *Raspberry Pi* boards
- General knowlege about *Arduino* bords

5 Projects

★ Supervised classification of satellite images 2021

- The goal of the project is to provide necessary data for the study of urban evolution in *Constantine, Algeria* from 1985 to 2020.
- Satellite images were aquired from datasets provided by *Google Earth Engine* platform.
- List of used technologies :  *Javascript*,  *Python*, *LaTeX*

★ Attendance management system for smart university 2020

- Project under the direction of *Mr. Zakaria Lakhdara* and binomial with *Aymen Belala* for obtaining a bachelor degree in software engineering.
- The main goal of the project is to facilitate the process of managing attendance of students and professors within *faculty of new technologies*, in *University of Constantine 2*.
- The project has the following parts : a web application, a mobile application and an electronic device.
- List of used technologies :  *JavaEE*,  *Python Flask*,  *Express*,  *Raspberry Pi*,  *Android*, *LaTeX*

6 Work experience

- **Volunteer part-time junior web developer** [📅 November 2020 - today]
📍 *MOOC Cell, University of Constantine 2*
- **Organizer at Google Development Group** [📅 2019 - 2020]
📍 *Facuty of new technologies, University of Constantine 2*
- **Organizer at Open Source scientific club** [📅 2018 - 2019]
📍 *Facuty of new technologies, University of Constantine 2*

7 Talks

- ★ **Deploy a self-hosted Git service** 📄 [📅 December 12th, 2021]
📍 *Developers festival, University of Constantine 2*
- ★ **Introduction to Python programming** 📄 [📅 March 11th, 2020]
📍 *GDG X Optimize, Higher school of Management Sciences - Annaba*
- ★ **Overview of GNU/Linux operating system** 📄 [📅 July 3rd, 2019]
📍 *Le salon de l'informatique, University of Constantine 2*
- ★ **Obscure Window Managers** 📄 [📅 November 13th, 2019]
📍 *Open Source scienfic club, University of Constantine 2*