Ouail *Chems-Eddine* DERGHAL

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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* JS
    - General knowledge in *Flask* 🧪
    - Superficial knowledge in *Fiber*
- Front-end frameworks :
    - Prior experience with *Bootstrap* B
    - General knowledge in *React* ⚛
    - General knowledge in *Vue* V
- Unit-testing frameworks :
    - Prior experience with *Jest* unit-testing framework for JS 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 JS 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

★ **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*