

# OUCHENE ABDELHAK

## Software Engineer

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## EXPERIENCE

### Mathematics tutor | **Part-time**

📅 2015 – Present

### Analysis of pollution attacks in the random linear network coding | **educational project**

📅 Feb 2022 - July 2022

- Network coding is a new area of research that is attracting increased interest among information theory and network engineering experts for its ability to improve network throughput and enhance network robustness.
- Despite its security advantages against wiretapping and other attacks, packet shuffling has led to some weaknesses in NC-based networks when this problem is the result of network errors.
- This project aimed to explore and study the coding properties of the network in order to develop a reliable algorithm that detect and correct the pollution attacks and perform a reliable simulation study on a given network. The simulations were performed inside a GNS3 emulator overlapping PYTHON.

### dashboard | **educational project**

📅 Oct 2022 - Dec 2022

- create a reliable server using flask.
- clean and format the data set using MySQL
- create a responsive website using HTML,CSS,JS that display charts which resume the data using ChartJS library and allow the manipulation of the data.

### Vote system based on blockchain | **educational project**

📅 Sept 2022 - Jan 2023

- create website to provide an authentic and secure vote system based on the blockchain technology.
- create blockchain system using python.
- build a server using Django to deploy the blockchain system and store it in SQLite database.

## SKILLS

### Programming Languages and Frameworks

- JavaScript, Python, C, Java , php
- Flask

### Project Management and Collaboration

- Agile methodologies and Scrum
- Communication and collaboration tools (IceScrum, Jira, Zoom, etc)
- Git, GitHub

### OS

- Kali Linux, ubuntu, Windows Server

### Network

- Packet tracer, GNS3

## EDUCATION

### B.S. in telecommunication and network engineering

University Of Science And Technology Houari Boumediene

📅 july 2022