

# Jamal Boussouf

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## EXPERIENCE

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### Overcoming Speech Recognition Challenges with GAN based Solutions

Nov 2022 – fev 2023

Nador University

FPN, MOROCCO

- Application of deep learning techniques to enhance speech recognition in different environments, including noisy conditions.
- Convolutional Neural Network (CNN) model achieved high accuracy in clean audio but struggled with increased noise levels.
- Attempted use of a simple autoencoder for noise removal led to a decline in classification performance, emphasizing the need for advanced denoising techniques.
- For more information: [github/Overcoming-Speech-Recognition-Challenges-with-GAN-based-Solutions](https://github.com/jboussouf/Overcoming-Speech-Recognition-Challenges-with-GAN-based-Solutions)

### Elliptic Curve Cryptography

June 2022 – juil 2022

Nador University

FPN, MOROCCO

- Accelerating Elliptic Curve Algorithms: Testing Techniques for Enhanced Speed in ECDH and ECDSA
- Exploring Elliptic Curve Cryptography: PARI/GP Implementation for ECDH and ECDSA in Python
- Testing of several algorithms such as NAF, Window-NAF and other algorithms to verify the signing and verification speed of ECDSA.
- For more information: [github/Elliptic-Curve-Cryptography](https://github.com/jboussouf/Elliptic-Curve-Cryptography)

### Secure P2P chat application using java

Feb 2022 – juil 2022

Nador University

FPN, MOROCCO

- Secure P2P Chat Application: Proposal for a secure chat application implemented in Java.
- System architecture resembles a complete and fully connected graph.
- Communication between nodes involves secure packet types.
- Secure P2P chat application in Java with decentralized network architecture, AES key exchange using RSA algorithm, and secure communication channels without a server.
- For more information: [github/Confidential-secure-and-optimal-communication-P2P](https://github.com/jboussouf/Confidential-secure-and-optimal-communication-P2P)

## EDUCATION

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### Multidisciplinary Faculty of Mohammed Prime Nador

Master in Data Science and Intelligent System

Nador, MOROCCO

Aug. 2022 – current students

### Multidisciplinary Faculty of Mohammed Prime Nador

Bachelor in Computer Science, Network and web system administration

Nador, MOROCCO

Aug. 2018 – May 2022

### Farkhana College

Degree in Physical Sciences and Chemistry

Nador, MOROCCO

Aug. 2015 – May 2018

## PROJECTS

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### Gitlytics | Python, Flask, React, PostgreSQL, Docker

June 2020 – Present

- \* Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- \* Implemented GitHub OAuth to get data from user's repositories
- \* Visualized GitHub data to show collaboration
- \* Used Celery and Redis for asynchronous tasks

### Simple Paintball | Spigot API, Java, Maven, TravisCI, Git

May 2018 – May 2020

- \* Developed a Minecraft server plugin to entertain kids during free time for a previous job
- \* Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- \* Implemented continuous delivery using TravisCI to build the plugin upon new a release
- \* Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

**Developer Tools:** Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib