



## Guilhem Mizrahi

07 86 29 11 25  
guilhem.mizrahi@gmail.com

59 Boulevard des Invalides  
75007 Paris

**Summary:** Cybersecurity student and general engineer. Seeking a role with a security agency with opportunities to apply my experience in research, analysis and interest in cybersecurity.

**CORE Cybersecurity Engineering Program**, SecureSet Academy, Denver, CO July 2019 to December 2019  
Over 800 hours of hands-on, lab and classroom-based training in fundamentals concepts of cybersecurity:

- Network Security: OSI model, network architectures, protocols, vulnerabilities. Analysis of traffic, setting up servers.
- System Security: Linux systems, architecture, and processes. Python and bash scripting. Exploitation & Pen Testing, Log Analysis & Detection.
- Cryptography: Applied symmetric and asymmetric cryptography. Encryption and decryption using Python.
- Threat Analysis & Strategy and Governance Risk & Compliance (GRC).

### Tools and projects

- Personal project IP-lookups: extracts IPv4 addresses from a text file, will retrieve the GeoIP and RDAP info and interface with a MySQL database to manage this info (Python and MySQL). This project is available on my GitHub.
- Metasploit, Powersploit, PSRecon1, Mimikatz and Mitre ATTA&CK framework.

**CERMICS lab** (Centre d'Enseignement et de Recherche en Mathématiques et Calcul Scientifique),  
Ecole Nationale des Ponts et Chaussées. May 2018 to August 2018

- Fundamental research in applied mathematics under the supervision of Frédéric Meunier on the colorability of Kneser graphs and other hypergraphs. Graph theory is essential to many topics of applied mathematics such as optimization or computer science.

Writing of a scientific paper including the two major theorems resulting from my research work. This paper has been sent to international mathematicians to provide them with solutions to questions they had asked.

**Ecole Centrale de Lyon** (Diplôme d'ingénieur) September 2016 to March 2019

- Deep Learning - Prediction of the emotions induced by videos (Pytorch).
- Implementation of a board game in Python (with UI and game mechanics). Computation of statistical best move.
- Implementation of a database manager software for a car dealer in Python and MySQL.
- Use of Python for scientific computing.
- Development from scratch of a copy of the famous app 2048 in C++ with QtCreator, of a multiplayer Pong game in Javascript and of a mobile game for Android in Java with VisualStudio.

### Additional education

- Bachelor of pure mathematics at L'UNIVERSITÉ LYON 1. 2016-2017
- Classe préparatoire *MP\** at LYCÉE HENRI IV in Paris. 2013-2016
- Baccalaureat (mention Très Bien). 2013

### Additional skills

- Seminars and conferences on Mathematics, Computer science and Physics.
- Linux - Installation and use of several distributions (Ubuntu, Manjaro, Kali ...).
- Git - Local use of Git linked to my Github for project management.
- LaTeX - Use of LaTeX for assignments and articles.

### Languages and achievements

- French, English (Fluent), German (Basics)
- GMAT 730/800 (top 4%)

### Social Networks

GitHub: [github.com/g-mizrahi](https://github.com/g-mizrahi)  
Linkedin: [linkedin.com/in/guilhem-m-6672b683](https://www.linkedin.com/in/guilhem-m-6672b683)  
Twitter: [twitter.com/MizrahiGuilhem](https://twitter.com/MizrahiGuilhem)

### Personal areas of interest

- Volunteer teaching of a class of 15 undergraduate engineering students in Mathematics and Physics at École Centrale de Lyon. Volunteer teaching of a high school student at the social center in Lyon.
- Award for the best design at the 24 hours of Innovation Hutchinson.
- Mountaineering (bouldering, climbing, freeride skiing, trekking).