

Nexa Technologies

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Head of Research





Our **mission**

Help governments to effectively fight against terrorism, hostage situations or any cyber threats.



Our **expertise**

Big data analytics & data management
Communication Intelligence
Protocol reverse engineering
Forensics & Security



Our **products**

Intelligence and interception systems that, no matter the transmission technology, capture, analyse and record.

Brno

2015 year of Nexa Technologies CZ
company creation

6 employees, research and
development

7 theses (finished or in progress)

1 Intern (now at ETH Zurich)

Paris

2012 year of Nexa Technologies
company creation

30 employees, mostly
engineers

Located in this building (room S407)

Development and Applied research

- network security
- machine learning
- cryptography

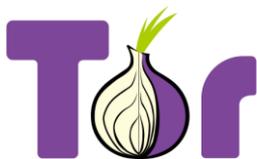
Internships: 3-9 months, flexible working hours (exams, ...)

Theses



Open Thesis Topics

- User action / event detection from encrypted traffic
- Categorizing the Dark Web
- Darknet and cryptocurrency analyses
- Correlation and inference of information from social media (OSINT)



Dark market analysis (monthly volume of transactions)

| Category | listings | feedbacks | revenue in euros | average price in euros | market share |
|----------------|----------|-----------|---------------------|------------------------------|-----------------|
| Cannabis | 5139 | 1883 | 135693 | 72 | 27.6 % |
| Stimulants | 3493 | 1043 | 108157 | 103 | 22 % |
| Opiates | 1662 | 489 | 83135 | 170 | 16.9 % |
| Pharmacy | 2294 | 1104 | 62054 | 56 | 12.6 % |
| Body building | 679 | 402 | 31466 | 78 | 6.4 % |
| Empathogens | 2988 | 394 | 20344 | 51 | 4.1 % |
| Other drugs | 774 | 173 | 14350 | 82 | 2.9 % |
| Psychedelics | 1377 | 198 | 11796 | 59 | 2.4 % |
| Other products | 782 | 89 | 9106 | 102 | 1.8 % |
| Self-defence | 513 | 4 | 4635 | 1158 | 0.9 % |
| Services | 1662 | 35 | 4061 | 116 | 0.8 % |
| Dissociatives | 290 | 38 | 2317 | 60 | 0.5 % |
| Classifieds | 649 | 18 | 2182 | 121 | 0.4 % |



THERE WILL BE CAKE



See for yourself **tomorrow at 9 AM, A403**

Attend our hands-on lecture on **detecting user actions in encrypted traffic**

CROCS (Open)Lab
crocs.fi.muni.cz