CGI is now looking for University graduates interested in doing master thesis work in the area of web-crawling of Darknet, more specifically Hornet and the new TOR-protocol connected to Child Sexual Abuse Material

Doing good is good!
Would you like to do your thesis work and at the same time do something good for humanity? If so here is a unique opportunity to combine not just only social responsibility, but also technology and insight into the dark side of the web and crawling at its forefront.

Background
Many horrible things exist in our society today and one of the most terrifying areas is the sexual exploitation of innocent children.

UN estimates that 750,000 people are online looking at children being sexual abuse at any given time. 80% of the children are under 10 years old. The problem exists everywhere, in all social groups, family situations, environments and workplaces. 1 out of every 1,000 employees looks at child abuse content using their company computer. Today the majority use crypto currency to pay for the abuse.

Scope of study
CGI has carried out several master thesis work in the area of crypto currencies, cyberlockers, machine learning and web traffic pattern analysis. This new master thesis aims to continue and leverage this work, by adding new, more enhanced capabilities in the area of web crawling.

Objectives
- Research appropriate crawling strategies, tools and methods in order to realize a prototype that is able to crawl several protocol versions of the darknet, for example Hornet and the new TOR-protocol.
- Design and implement a prototype.

How
You will carry out the work in direct cooperation with a smaller team from the Financial Coalition, and you will be guided by a person from CGI knowledgeable in this area. You will also cooperate with the police force and the Swedish banks as well as other international organizations successful within the area. CGI will provide you with contacts within CGIs and the Financial Coalitions network.
Who
We envision one or two persons doing this work. A background in computer science is required as well as knowledge about crawling, anonymization, networking and privacy online. You also need to have a profound interest to learn new things, be creative, structured and have a good understanding for processes and methods. The work will be documented in English.

This work will be fully carried out without having to view any kind of sensitive material.

About CGI
CGI is a leading and dynamic IT-technology and services company, employing 70,000 people across 40 countries (4,000 employees in Sweden). CGI provide business consulting, systems integration and outsourcing to clients around the World. CGI works closely with its customers to enabling change that increases their efficiency accelerates their growth and manage their business risks. CGI apply its deep industry knowledge, technical excellence and global delivery expertise to help customers building leadership positions within their selected markets.

www.cgi.se

About Finance coalition
The Financial Coalition members cooperate with the Swedish National Criminal Police and ECPAT with the purpose of stopping the trade in Child Abusive Material where transactions are made through the financial system. The police bear the ultimate responsibility for combating child pornography. At the same time, the finance industry is a key player in finding solutions for stopping transactions.


www.finanskoalitionen.se

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