

Joakim UDDHOLM

PERSONAL DATA

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GITHUB: <https://github.com/Tethik>

SUMMARY

I am a newly graduated Master in Computer Science who studied at KTH in Stockholm, Sweden. My focus was on computer security. Since the age of 17, I've also worked part time as a professional programmer. I've worked a lot with web development, but also with scraping and some mobile app development. The past few years I've also focused on security. I've performed some minor penetration tests, as well as contributed by finding and disclosing vulnerabilities to companies.

I am confident in my ability as a software engineer, backed by a combination of theoretical and practical experience from having studied and worked at the same time. My keen interest in the subject will ensure that I always keep learning.

WORK EXPERIENCE

Current JAN 2015	Self-Employed at BLACKNODE <i>Programming and Penetration Testing</i> I perform penetration testing focused on Network-, Application-, and Web Security, as well as take on more specialized programming projects. I reverse engineered an Android application and assessed store-networks for vulnerabilities for a major coffee-shop company (100+ stores). I built multiple web-scrapers with infrastructure for a major Scandinavian retail chain to gather information about competitors' products and prices.
MAY-OCT 2015	Part-time Security Consultant and Programmer at BAMBORA <i>Mobile Payment Company</i> Short term hire after finding vulnerabilities in the mobile payment platform delivered by Bambara. Performed penetration tests and prototyped new features to improve security at the mobile division of Bambara. Added encryption for locally stored user credentials to better secure the user data stored on a phone against e.g. theft. Prototyped platform-authentication for clients using BankID. Focused on web and mobile security. Android and Python development.
AUG 2013 - MAY 2015	Part-time Security Consultant and Programmer at PAYSON AB <i>Online Payment Platform</i> Tasked with finding vulnerabilities in Payson's systems. Programming frontend and backend in C# .NET. In addition to helping out with new functionality on the website, I had my own project involving web scraping and regularly data mining thousands of sites.
DEC 2007 - DEC 2013	Part-time Programmer at AWAVE AB <i>Web Development and Programming Consultancy Shop</i> Programming websites in PHP and .NET. Mostly "backoffice" administrative applications, with lots of obtuse SQL queries. Created three iPhone apps in Mono Xamarin. Desktop applications for invoicing and accounting on Windows. Server administration and setup in Linux and Windows. Security auditing/pentesting of websites.

EDUCATION

JANUARY 2017 Master of Computer Science, **KTH Royal Institute of Technology**, Stockholm
Major: Computer Security
Thesis: "Anonymous Javascript Cryptography and Cover Traffic in Whistleblowing Applications" | Supervisor: Prof. Sonja BUCHEGGER

JULY 2013 Bachelor of Computer Science, **KTH Royal Institute of Technology**, Stockholm
Thesis: "Voting Mix-Net" | Supervisor: Douglas WIKSTRÖM

SCHOLARSHIPS AND CERTIFICATES

2010 Cambridge Certificate of Proficiency in English (CPE): Grade A
2009 Cambridge English: Advanced (CAE): Grade A

LANGUAGES

SWEDISH: Modersmål (Mothertongue)
ENGLISH: Fluent (I lived in England for 4 years as a child)
GERMAN: Basic Knowledge

COMPUTER SKILLS

Advanced Knowledge: PYTHON, Java, .NET (C#), PHP, JavaScript, Linux, SQL, Webapp security, Webscraping, HTML/CSS
Basic Knowledge: ANDROID, C/C++, Rust, Ruby, Prolog, Haskell

INTERESTS AND ACTIVITIES

Technology, Open-Source, Programming, Cryptography, Computer Security
Video-games, Philosophy, Baking

PROJECT SHOWCASE

These are some projects I've worked on. I also have more projects on my github account, which you can find here: <https://github.com/Tethik>

Burn After Reading

A simple to use webservice for securely sending secrets. It works by encrypting texts in javascript, sending the key in such a way that the server should not see it. The server then stores the text in memory until either the recipient decides to "burn" the text or the time expires. I use it to send passwords and other secrets that I don't want to be kept saved in e.g. an email inbox or chat thread. Coded in javascript and python.

Demo: <https://burn.blacknode.se>

Src: <https://github.com/Tethik/burn-after-reading>

Tamperfree

A tool to verify static content on tor hidden service websites. It uses selenium to emulate the tor browser bundle in order to make a verifier that looks and acts just like a normal tor user would. By doing this I hope to achieve indistinguishability from a real user, so that the server can not differentiate between the verifier and real user. Mostly a proof of concept. Coded in python.

Src: <https://github.com/Tethik/tamperfree>