

Nikolaos Pantelaos

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EDUCATION

North Carolina State University, NC, USA

2018-Present

PhD, Computer Science - *Supervisor*: Alexandros Kapravelos

Research Interests: **Web Security & Systems, Pattern Recognition & Machine Learning**

National Technical University of Athens(NTUA), Greece

2012-2017

BSc & MSc in Electrical and Computer Engineering (5-year joint degree; 300 ECTS)

Thesis: Personality Traits Recognition from Speech using Neural Networks

Supervisor: Alexandros Potamianos

EXPERIENCE

Research Intern - Product Security & Data Science, ByteDance, CA

2020

- Developed a comparison system to check for compromised accounts in the **TikTok** user base
- Used Hadoop & Hive to handle Big Data, coding in both Python & GoLang

Research Assistant - Web Security, NCSU

2018 - Present

- Established Proficiency in Code Development & Remote Testing using Docker & Kubernetes
- Managed & coordinated Research Groups from different Universities

Teaching Assistant - C & Programming tools, NCSU

2018 - 2019

- Guided large Group of Students (200) & organized live coding Competitions for interactive Teaching
- Drilled desired Programming Practices (GitHub, LaTeX, writing clean Code)

Intelten, Energy Consumption Analysis Company, Greece

2016 - 2017

Software Developer

- Developed Energy Consumption Python Tools for Houses & Businesses (R&D Department)
- Analyzed Energy Supply/Demand Data & extracted Patterns for each Customer

PUBLICATIONS

Nikolaos Pantelaos, Nick Nikiforakis, Alexandros Kapravelos. You've Changed: Detecting Malicious Browser Extensions through their Update Deltas. In Proceedings of the ACM Conference on Computer and Communications Security (CCS), 2020.

PROJECTS

Privacy Leakage in the Web

2018 - Present

- Detected User Privacy Leakages from DNS & JS features analysis using Machine Learning Techniques

Bot Detection in Chrome Webstore

2018 - Present

- Developed a Bot Detection System in the Chrome Webstore for Fake Comments & Users in Python

Hacking Group (HackPack)

2018 - Present

- Participated in CTF Competitions coding Browser and Binary Exploits (XSS, DoS, ROP)

Phishing Pages in the Web

2018 - 2020

- Conceptualized Site Similarity System for Phishing Fraud & New Phishing Evasion Techniques

Mobile Applications Security

2018 - 2019

- Created an Auto-Report & Prevention System for all Mobile Extensions spying on Mobile Numbers

Personality Prediction - Speech Recognition

2016 - 2018

- Designed Personality Prediction Model achieving state-of-the-art Results using Tensorflow & Keras

SKILLS

- Python, GoLang, Javascript, R, C, C++, C#, Java, SQL, PostgreSQL, MongoDB, HTML, CSS
- Hive, Hadoop, Tensorflow, Keras, Theano, Kubernetes, Docker, PyTorch, MATLAB, Linux

LANGUAGES

English (fluent), German (basic), Greek (native)

References available upon request.