

# ALEXANDROS KORNILAKIS

 me@akornilakis.dev  akornilakis.dev  CuriouzKod3r  kornilak

## PROFESSIONAL SUMMARY

Experienced software engineer with 6+ years in web development and cybersecurity, skilled in JavaScript, Python, PHP, and web technologies. Passion for delivering high-quality software and continually improving my skills. Successfully developed web applications, browser extensions, mobile apps, and security tools.

## EXPERIENCE

- 09/2020 – Present **Software Engineer** ICS-FORTH, TNL Lab
- Lead developer for the [NIKH Platform](#)
  - Implemented the [Artemis](#) and [Artemis Lite](#) Web Applications
  - React.js, Next.js, Svelte, Astro, TailwindCSS, WebAssembly for Frontend
  - Python, Node.js, MongoDB, Redis, RabbitMQ, Hasura for Backend
  - Docker, Kubernetes, GitHub + GitLab CI/CD for DevOps
- 8/2017 – 08/2020 **Research Fellow** ICS-FORTH, Distributed Computing Systems Lab
1. Synthetic Vulnerabilities and evolutionary Fuzzing for Web Applications.
  2. A Fake News Detection plugin. In collaboration with **Google**. I was the lead developer.
  3. Incognitus: Privacy-Preserving User Interests in Online Social Networks.
  4. The Rise and Fall of Fake News sites: A Traffic Analysis. [WebSci 2021](#)
- 2/2020 – 3/2020 **Data Scientist (intern)** Telefonica I+D, Barcelona, Spain
- Fake News Detection with Graph Analytics
- Python scripting, crawling
  - Graph algorithms
- 11/2019 – 2/2020 **Machine Learning Engineer (Intern)** F-Secure Corporation, Helsinki, Finland
- A New, Novel Method for Clustering Tweets. [Blog post](#)
- **Summary:** Invented a pipeline for clustering tweets using Python NLP libraries. [Code](#)
- 3/2017 – 8/2017 **IT System Administrator** Hellenic Army | Mandatory Military Service
- 6/2014 – 5/2015 **Full Stack Developer** CodePLUS, Heraklion, Greece
1. Developed a reservation system in PHP and JS/jQuery. RESTful Web Services
  2. Commercial websites using PHP. RDBMS and Linux server administration.
  3. Commercial Android application for fotomaris photography shop.
- Freelancer**
1. Java Android app for professional photographers, in collaboration with OpenIT.
  2. Developed a QR-code based e-payment system - a mobile application - with Ionic Framework.
  3. Construction of WordPress websites and Opencart e-shops
  4. Opencart extensions, [miscellaneous pages](#).

## EDUCATION

- 9/2017 – 9/2019 **M.Sc. in Distributed Computing Systems** University of Crete
- GPA: 8,94/10.  
Thesis: [Check-It: Real-Time Detection of Fake News. WI 2019](#)  
Studied topics: Big Data Analytics, Deep Learning, Computer Security
- 2010 – 2016 **B.Sc. in Computer Science** University of Crete
- GPA: 7,4/10.  
Thesis: [K-anonymity in Facebook. IOSEC 2018](#)

## RELEVANT SKILLS

**Programming Languages:** JavaScript, TypeScript, PHP, Java, Python, C, Bash, Rust.

**Web Development Stack:** Node.js, Next.js, WebAssembly, Hugo, React.js, Svelte, Tailwind CSS, Wordpress, Opencart.

**ML and Data Science:** TensorFlow, PyTorch, NLTK, scikit-learn, Pandas, Spark MLlib, OpenCV.