





IOANNIS ARAKAS

 LinkedIn  GitHub  Personal Site  johnarkas679@gmail.com

EXPERIENCE

Research Assistant

July 2022 - Present

Oracle Labs

- Developing a software for scanning projects for cryptographic missuses at scale.

Postgraduate Research Assistant / Fellow

Oct 2021 - Present

Distributed Computing Systems and Cybersecurity Laboratory at FORTH, Greece

- Cybercrime Monitoring and Defenses: framework for malicious block-chain addresses.
- Implemented a new system to provide decentralized user authentication, using Linux PAM.

Teaching Assistant

Oct 2021 - Present

Computer Science Department, University of Crete, Greece

Roles: Website Maintenance, Lectures, Tutorials

- CS-457 Introduction to Information Security Systems Spring 2022
- CS-345 Operating Systems Fall 2021

Backend Developer

Jun 2021 - Nov 2021

Travelsoft-Weblogic

- Transition of an ColdFusion API to a RESTful API, using NodeJS.

Software Engineer Intern

Aug 2020 - Oct 2020

Progekta Europe P.C.

- Developed an Android Application in Java that controls peripheral sensors over Bluetooth Low Energy and the underling embedded software in C.

Undergraduate Research Assistant / Fellow

Mar 2019 - Aug 2020

Distributed Computing Systems and Cybersecurity Laboratory at FORTH, Heraklion

- Developed a real-time containment solution for worm-based malware such as WannaCry.

EDUCATION

Master in Computer Science Engineering

Sep 2021 - Present

Computer Science Department, University of Crete, Greece

Bachelor in Computer Science

Sep 2016 - Aug 2020

Computer Science Department, University of Crete, Greece

Thesis: Containment of internet attacks-viruses and worms

PROJECTS

Super Mario Game with a custom 2D Game Engine (Team project)

Implementation of Super Mario Bros Game using a custom 2D Engine (build with C++ and allegro).
The game has network based PvP capabilities(team project).

NearPrint

Developed a MERN STACK project that facilitates networking between 3D printer owners and people that need something printed.

Alpha Compiler and Virtual Machine (Team Project)

Compiler and Virtual Machine for ALPHA language (Javascript-like).

Nerf (Team Project)

Implemented a tool for active measurements of the maximum achievable bandwidth on IP networks.

SKILLS

Computer Languages:	C, C++, Python, JavaScript,React, HTML/CSS, Java, Solidity, GraphQL MySQL, MongoDB
Software & Tools:	Node.js, Unix, GNU/Linux, VBOX, Git, MongoDB, Snort, Wireshark Android Studio

EVENTS

Organizer/Organizing member of:

- Introduction to Information Security Systems CTF 2021, 2022.
- Systems SQL injection lab 2022 at Introduction to Information Security (CS-457) .
- Google HashCode Hub in University of Crete 2022.
- Career-fair Computer Science Department 2022

Participant/attendee of:

- Google HashCode 2020, 2021, 2022
- PANOPTIS 2021(National Cyber Defence Exercise organized by the Hellenic Military)
- Nahamcon CTF 2022, SANS and DRAGOS CTF 2022

EXTRACURRICULAR ACTIVITIES

- Member of University's CTF Team OxDaedalus.
- Ethical Hacking.
- Local Chios Mastic producer (PDO agricultural product).