

Alexandros Britzolakis

Software/Network Engineer

M.Sc. in Network Engineering and Multimedia



Age: 28

Nationality: Hellenic/Greek

Military Obligations: Fulfilled

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Webpage: <https://www.codebrakes.gr>

GitHub: <https://github.com/CodeBrakes>

EDUCATIONAL LEVEL

Network Engineering and Multimedia

Master of Science

EQF Level: 7

Hellenic Mediterranean University

10/2018 – 04/2020

Heraklion, Crete, Greece

Academic Dissertation: Development of a web-based data visualization software for political tendency identification of Twitter's users using Python Dash framework.

- Description: Utilization of Python Dash framework, Tweepy and spaCy, visualization of structured data (e.g. likes, retweets etc) and calculation of emotion-based sentiment analysis from a sample of 600 live tweets taken from the accounts of the three most prominent Greek politicians.
- Supervisor: Dr. Nikolaos Papadakis - npapadak@hmu.gr
- Dissertation Grade: 10/10

General Information: The course outline of the master consisted by two (2) semesters of academic courses which emphasized on the fields of networks and telecommunications, video game development and machine learning.

Informatics Engineering

Bachelor of Applied Sciences

EQF Level: 6

Hellenic Mediterranean University

(Formerly Technological Educational Institute of Crete)

02/2010 – 10/2016

Heraklion, Crete, Greece

Academic Dissertation: Design and security of corporation LAN networks using GNS3 [↗](#)

- Description: Design and development of two (2) LAN networks exclusively with cisco commands using GNS3, establishment and security of the connection.
- Supervisor: Dr. Harry Manifavas - harryman@otenet.gr
- Dissertation Grade: 10/10

General Information: The course outline consisted by seven (7) semesters of software, network and computer engineering as well as Physics, Mathematics, Statistics and Microelectronics courses with 240 of total ECTS.

WORK EXPERIENCE

Graduate Research Assistant

Hellenic Mediterranean University & Foundation for Research and Technology – Hellas

09/2019 – 04/2020

Heraklion, Crete, Greece

Description: Part of the requirements for the completion of my MSc thesis in collaboration with the Artificial Intelligence and System Engineering Laboratory - AISE of the Hellenic Mediterranean Uni-

versity and Computational BioMedicine Laboratory of Foundation for Research and Technology - Hellas (CBML, FORTH-ICS).

Responsibilities:

- Identify the research question of the project
- Identify the tools that will be used for the creation of the web-based application.
- Front-end mechanism involves CSS and Dash Framework while back-end involves Tweepy and spaCy (NLP library).
- Available link at: athppa.cs.hmu.gr

Supervisor: Dr. Haridimos Kondylakis - kondylak@ics.forth.gr

Programmer/Analyst

401 General Military Hospital of Athens

02/2018 – 04/2018

Athens, Attica, Greece

Description: As a Greek citizen, I served a mandatory military service as a soldier of research and Informatics Corps at the IT department of the General Military Hospital of Athens.

Responsibilities:

- Assist to the management of the entire IT systems of the hospital
- Design of a secure shell in C programming language for the needs of a local Linux server.

Supervisor: Antonios Triantafillos – 401gsnagap@army.gr

Application Engineer (intern)

Hellenic Mediterranean University

(Formerly Technological Educational Institute of Crete)

05/2016 – 10/2016

Heraklion, Crete, Greece

Artificial Intelligence and Systems Engineering - A.I.S.E research laboratory

Responsibilities:

- Designing distinct Linux security layered shells in C programming language [↗](#)

Supervisor: Dr. Miltiades Grammatikakis – mdgramma@cs.hmu.gr

PERSONAL PROJECTS

Web Designer - Codebrakes.gr (04/2018 – Present) [↗](#)

- My personal website which includes tutorials for computer networks, web design and shell scripting.
- It is a custom website which involves the following web technologies: HTML, CSS, Javascript, PHP. Furthermore, Photoshop, M.S. Visio and Edraw max applications were used for the creation of the multimedia content.
- cPanel and Plesk administration experience

Informatics Engineering tutor (02/2016 – Present) [↗](#)

- Video editing
- Creator of study material and presenter
- Creator of multimedia content (using Photoshop and M.S. Visio)

SKILLS

Object Oriented Programming:

- C#
- C++
- Python
- Java
- PHP
- Visual Basic
- JavaScript
- MATLAB
- .NET

Data science/visualization:

- spaCy
- Amazon Comprehend
- Dash Framework
- Machine Learning
- Natural Language Processing

Low level programming:

- C
- Bash

Server/Database Administration:

- SQL
- Plesk
- cPanel
- Database Management
- Network Administration
- Network Design
- Cisco IOS
- Network Security

Web-Based:

- HTML/CSS
- Bootstrap
- WordPress

Operating Systems:

- Windows
- Linux

Graphics/Content creation/Software knowledge:

- Adobe Photoshop
 - Adobe Premiere
 - Video Editing
 - Edraw Max
 - M.S. Visio
 - M.S. Office
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LANGUAGES

Greek

Native or Bilingual Proficiency

English

Professional working proficiency

INTERESTS

Community Involvement

Volunteer Work

Blogging

Research