




## Bogdan Macovei

Date of birth: 07/06/1997

Nationality: Romanian

Gender: Male

### CONTACT

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### ABOUT ME

I am an ambitious person who has developed mature and responsible approach to any task that I undertake. My main area of interest is web development, using .NET technologies; besides, I am involved in personal research projects in fields such cryptography, logic, security, machine learning and deep learning. I am able to strike a balance between theoretical and practical knowledge, being a fast learner.

### WORK EXPERIENCE

**10/2019 – CURRENT** – Bucharest, Romania

#### University teaching assistant

University of Bucharest

- Computer Systems Architecture laboratory for undergraduate students. Main topics: RISC and CISC processor architecture and assembly languages (MIPS, RISC-V and x86/64 AT&T syntax).
- Formal Languages and Automata laboratory for undergraduate students. Main topics: Chomsky Hierarchy, Regular Languages (grammars and expressions) and Context-Free Languages.
- Functional Programming laboratory for undergraduate students.

**10/2020 – CURRENT** – Bucharest, Romania

#### Web developer

Essensys Software

Development of a public web portal for viewing and reporting data regarding the nutrition and poor nutrition caused diseases. The technologies used are .NET Core 3.1, EntityFrameworkCore 3.1, SQL Server 2016, Javascript, D3.js.

**04/2020 – 11/2020** – Bucharest, Romania

#### Web developer

Essensys Software

Developed a public web portal for viewing and reporting the number of deaths according to certain criteria. The main technologies used were .NET Core 3.1, EntityFrameworkCore 3.1, Javascript, D3.js, HTML5, CSS3, SQL Server 2016.

**03/2020 – 04/2020** – Bucharest, Romania

#### Web developer

Essensys Software

Developed a web application for a non-governmental organization with the aim of delivering medical equipment in the context of COVID-19. The technologies used were .NET Core 3.1, EntityFrameworkCore 3.1, SQL Server 2019, Javascript, Knockout.js, HTML5, CSS3.

**03/2019 – 03/2020** – Bucharest, Romania

#### Web developer

Essensys Software

Developed a web application for managing the labels displayed on store shelves. The technologies used were .NET Core 2.1, Entity Framework 2.1, SQL Server 2019, React (with Typescript and Redux) and MQTT.

**01/2019 – 07/2019** – Bucharest, Romania

### Web developer

Essensys Software

Developed a web application for generating vouchers for customers and for retaining the history of their transactions within a loyalty program. The technologies used were .NET Core 2.1, EntityFrameworkCore 2.1, MVC Core, Javascript, Knockout.js, HTML5, CSS3, SQL Server 2016.

**11/2018 – 12/2018** – Bucharest, Romania

### Web developer

Essensys Software

Developed a web application for customer loyalty and for promoting sports activities based on accumulated loyalty points. The technologies used were .NET Core 2.1, EntityFrameworkCore 2.1, MVC Core, Javascript, HTML5, CSS3, SQL Server 2016.

## EDUCATION AND TRAINING

**01/10/2021 – CURRENT**

### PhD Student in Computer Science

University of Bucharest

<https://fmi.unibuc.ro>

**10/2019 – 06/2021** – Bucharest, Romania

### Master's Degree in Security and Applied Logic

University of Bucharest

Cybersecurity

Reverse Engineering

Advanced Logic in Computer Science

Program Verification

Data Mining and Knowledge Discovery

#### Field(s) of study

- Security and Applied Logic

9.93/10 | Thesis: Dynamic epistemic logic for security protocols analysis | [fmi.unibuc.ro](https://fmi.unibuc.ro)

**10/2016 – 06/2019** – Bucharest, Romania

### Bachelor's Degree in Computer Science

University of Bucharest

Mathematical Logic for Computer Science

Logic Programming

Declarative Programming

Artificial Intelligence and Machine Learning

Object Oriented Programming

Database Management Systems

### Field(s) of study

- Computer Science

9.53/10 | Machine Learning application for analyzing the impact of environmental factors on quality of life | [fmi.unibuc.ro](http://fmi.unibuc.ro)

**09/2012 – 06/2016**

### Baccalaureate Degree

Colegiul National "Roman-Voda"

### Field(s) of study

- Mathematics and Computer Science

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Romanian

**OTHER LANGUAGE(S):**

**English**

<b>Listening</b> C1	<b>Reading</b> C1	<b>Spoken production</b> C1	<b>Spoken interaction</b> C1	<b>Writing</b> C1
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**French**

<b>Listening</b> B2	<b>Reading</b> C1	<b>Spoken production</b> B2	<b>Spoken interaction</b> B2	<b>Writing</b> B1
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## DIGITAL SKILLS

Microsoft Office / Outlook / Google Drive

## DRIVING LICENCE

- **Driving Licence: AM**
- **Driving Licence: B1**
- **Driving Licence: B**

## COMMUNICATION AND INTERPERSONAL SKILLS

### ● **Communication and interpersonal skills**

- good communication skills gained through my experience as university teaching assistant at University of Bucharest;
- good interpersonal skills gained by working as part of a 5+ team over the course of 3 years.

## ACADEMIC SKILLS

### ● Academic Skills

- considerable Natural Language Processing, Machine Learning & Deep Learning skills using Python, Matlab and R, for both supervised and unsupervised learning.
- good Logic and Algebra knowledge used in formal analysis of programming languages;
- member of Security and Logic research group.

I'm currently working on dynamic epistemic logic and so far I developed a new sound and complete system in order to verify security protocols.

## JOB-RELATED SKILLS AND CERTIFICATIONS

### ● Job-related Skills and Certifications

#### Skills

C#, NET Core, SQL Server, Oracle, Data Warehouse, Javascript, React, Redux, Typescript, D3.js, EntityFramework Core, Restful API

#### Certifications

Cyber Security Specialist - Specialist in computer systems security procedures and tools (COR code 251402)