

# Diana-Elena HORINCAR

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Baia Mare, Romania | 18 June 1995  
ADDRESS: Grigore Alexandrescu 13, Cluj-Napoca, Romania  
PHONE: 0728817035  
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## WORK AND EXPERIENCE

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- Sept. 2021 - Present Associate It Consultant at **msg-systems Romania**  
Programming in TypeScript and JavaScript using Visual Studio Code environment.  
I am also using tools, such as Git, Gitlab, Jira and Cypress.
- May 2019 - Sept. 2021 Software Validation Engineer at **Magneti Marelli**  
Programming in Python using Eclipse environment. I am also using tools,  
such as ClearCase, Git, Jira and DOORS.  
Completed multiple trainings in Python, DOORS, ClearCase, ISTQB,  
and CAN communication protocol.

## EDUCATION

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- 2021-2024 Phd in 3D PRINTING, **Technical University of Cluj-Napoca**  
For my phd thesis I will be focusing on discovering new concepts about 3D Printing and how  
to improve 3D printing in the medical field
- 2018-2020 Master in APPLIED INFORMATICS, **Technical University of Cluj-Napoca**  
For my masters thesis I focused on learning new concepts about Neural Networks  
and Frontend technologies such as JavaScript and Bootstrap.  
Therefore i am interested in using similar technologies in the future.  
I also took a course on Ros Robotics where I programmed using terminals on Linux operating system.
- 2014-2018 Bachelor in APPLIED INFORMATICS, **Technical University of Cluj-Napoca**  
Some of the most important courses that I took are: Logic Design, Advance Mathematics,  
Distributed Systems, DataBases and Data Transmission (where I created a GPS Location  
Tracker application in Android). I am familiar with System Identification in Matlab  
where i did a project which calculated the transfer function of step and impulse signal  
coming from a circuit.
- 2010-2014 Graduate of MATHEMATICS AND INFORMATICS, **Vasile Lucaciu National College, Baia Mare**  
I studied Informatics, Mathematics and Physics.

## CERTIFICATES

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- JUNE 2014 Oracle Academy Certificate (In Java and Databases)  
APRIL 2014 Cambridge English (Level:Advanced)  
MARCH 2014 European Computer Driving Licence (Knowledge in Excel, Word and DataBases)  
JUNE 2013 First Aid Certification at Red Cross (Participated in various events as a first aid volunteer)

## LANGUAGES

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ROMANIAN: Mothertongue  
ENGLISH: Fluent  
GERMAN: Basic Knowledge  
JAPANESE: Basic Knowledge

## COMPUTER SKILLS

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Basic Knowledge:  
**Front End:** HTML, CSS, JAVASCRIPT, ANGULARJS.  
**Back End:** PYTHON, JAVA, PHP, C, C++.  
**Databases:** MySQL.  
**Image Processing:** ADOBE PHOTOSHOP, LIGHTROOM, AFTER EFFECTS, PREMIERE PRO

## PROJECTS

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| 2018 | <p><i>Web application that locates social events in urban areas</i></p> <p><b>Technologies:</b> Java, JavaScript, CSS, PHP, HTML, MySQL, AngularJS, Google Maps</p> <p><b>Description:</b> For this application I used the Client-Server architecture. This application has two types of clients. First one is an AngularJS client connected to an API through PHP. Second one is an Android Client. On the graphical interface I integrated a map from Google and a function that allows users to vote their favourite event and then, the vote is automatically added to a MySQL database.</p> |
| 2018 | <p><i>Satellites monitoring application using NASA public API</i></p> <p><b>Technologies:</b> JavaScript, CSS, PHP, HTML, MySQL</p> <p><b>Description:</b> This application is based on the Client-Server architecture. An API was called periodically from NASA to get the exact GPS coordinates of the satellite. After that the coordinates were displayed on a web browser and sent through PHP to a Database.</p>   |
| 2018 | <p><i>Android GPS Client-Server application</i></p> <p><b>Technologies:</b> Android, Java, MySQL</p> <p><b>Description:</b> I programmed a native application in Android which read the exact coordinates from the GPS module of my phone. The coordinates were then sent and displayed with PHP in a MySQL Database.</p>  |
| 2018 | <p><i>Parking Application for Smart Cities using Raspberry Pi</i></p> <p><b>Technologies:</b> JavaScript, HTML, CSS, PHP, Python and also motion detector sensors</p> <p><b>Description:</b> For this project I used a physical model with multiple parking spots, every spot had a proximity sensor attached to it which helped detect if the parking spot was free or not. The model was then represented on a graphical interface with all the graphical components connected to the parking spots using PHP, Python and a small single-board computer RaspberryPi.</p>                       |
| 2016 | <p><i>Online Shop</i></p> <p><b>Technologies:</b> Java, PHP, MySQL</p> <p><b>Description:</b> For this online shop I integrated the C.R.U.D operations using Java, PHP and MySQL. All the products and users from the shop were displayed on a table.</p>  |
| 2015 | <p><i>Identifying an axe of a DC motor</i></p> <p><b>Technologies:</b> Matlab</p> <p><b>Description:</b> For this project I wrote an Matlab script which collected data from a DC motor from a modelling axe.</p>  |

## INTERNSHIP AND OTHER ACTIVITIES

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- 2018 OSUT Volunteer at Technical University of Cluj-Napoca
- 2017 Summer Internship at Softvision Baia Mare
- 2016 UNTOLD Volunteer
- 2016 ELECTRIC CASTLE Volunteer
- 2014 FIRST AID HELP Volunteer at Red Cross
- 2012 SILVERO5 Volunteer at a local Theater Group in Baia Mare
- 2012 Member of the Astronomy Group at my High School

## INTERESTS

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Programming, Singing, Reading, Photo/Video editing and Skiing.