



ANA MARIJA ERES

COMPUTER SCIENTIST ☎ +385996604400

DETAILS

+385996604400

ana.marija.eres@gmail.com

LINKS

[LinkedIn](#)

SKILLS

Java

Python

R

Keras

Jupyter

C

Git

Anaconda

C++

Swift

Rodin

Google Cloud Platform

HTML/CSS/JavaScript

Tensorflow

MySQL

Firebase

Gephi

React

LANGUAGES

Croatian

English

German

Spanish; Castilian

HOBBIES

Dancing, going to the theater,
walking my dog, and listening to
new music.

EXPERIENCE

Research Intern at IMDEA Software Institute, Madrid

October 2021 — July 2022

- working on the MSc thesis: Analysis of the Impact of the Collateral Funds in Payment Channel Networks (Bitcoin, Lightning Network)
- my contributions: designing and implementing the simulator to study the behavior of protocols and creating an algorithm for predicting the success rate of protocols

Team Worker at Faculty of electrical engineering and programming, University of Zagreb, Zagreb

October 2019 — February 2020

- worked in a team of 7 people on a Software Design project (used Git technologies for code versioning)
- my role in this project was a full stack developer: backend (Java) and frontend (Javascript, React)

EDUCATION

Master of Computer Science, Faculty of electrical engineering and computing (FER), University of Zagreb, Zagreb

December 2020 — July 2022

- <https://www.fer.unizg.hr/>
- my average: 4.568
- final MSc thesis: Analysis of the Impact of the Collateral Funds in Payment Channel Networks

Master of Data Science & Formal Methods in Computer Science and Engineering, Escuela Técnica Superior de Ingenieros Informáticos, Universidad Politécnica de Madrid, Madrid

February 2021 — July 2021

- <https://www.fi.upm.es/?id=metodosformales&idioma=english>
- <http://dia.fi.upm.es/mastercd/?q=en/presentation>
- participating in an exchange program

Bachelor of Computer Science, Faculty of electrical engineering and computing, University of Zagreb, Zagreb

September 2017 — July 2020

- my average: 4.215
- final BSc thesis: User Communication Within The Dance Studio Mobile Application (iOS application, Swift)

COURSES

Service and application development for iOS, FER

March 2020 — July 2020

Fundamentals of digital game development, FER

October 2019 — January 2020

PROJECTS

Application of a simple distributed system based on microservices and containers @FER | Spring boot, Docker, Zagreb

January 2022 — February 2022

- project made in the course *Distributed Systems*

- **Analysis and Application of ARIMA & VARIMA Models on a Real-Life Time Series Dataset @ETSIINF | R**
 February 2021 — May 2021
 - project made in the course *Time Series Data Mining* in a team of three people
- **Training Feedforward and Convolutional Neural Networks on a CIFAR-100 Image Dataset @ETSIINF | Python, Keras, Tensorflow, Jupyter, Google Cloud Platform**
 February 2021 — May 2021
 - project made in the course *Deep Learning* in a team of four people
- **Object Recognition and Image Classification @ETSIINF | Python, Keras, Tensorflow, Jupyter, Google Cloud Platform**
 February 2021 — May 2021
 - project made in the course *Deep Learning* in a team of four people
 - trained two neural networks, one for Object Recognition, one for Image Classification
- **Web Scraping, Data Generation & Data Analysis @ETSIINF | Python, Google Colab, Jupyter**
 February 2021 — May 2021
 - project made in the course *Programming for Data Science* in a team of four people
 - leveraging on data in order to improve Smallville Asset Management's financial performance
- **Graph Analysis on a Movie Galaxies Dataset and Sentiment Analysis of Selected Movies using TwitterAPI @ETSIINF | Gephi, Python, Jupyter, TwitterAPI**
 February 2021 — May 2021
 - project made in the course *Graph Analysis and Social Networks*
- **User Communication within the Dance Studio iOS Application @FER | Swift, Git, Firebase, Xcode, CocoaPods**
 March 2020 — July 2020
 - this project was my B.S. thesis
 - iOS application for the purposes of handling events and people managing in a dance studio
- **Statistical Data Analysis of Student Success Based on Various Factors @FER | RStudio, R**
 March 2020 — July 2020
 - the project made in the course *Statistical Data Analysis* in a team of three people
- **Web Application for Managing Appointments in a Rehabilitation Polyclinic @FER | Git, Java, Javascript, Latex, React, MySQL**
 October 2019 — February 2020
 - the project made in the course *Software Design* in a team of seven people