

Delia Dumitru

EDUCATION

BABES-BOLYAI UNIVERSITY

BS IN COMPUTER SCIENCE

Oct. 2015 - Jul. 2018 | Cluj-Napoca, RO

BABES-BOLYAI UNIVERSITY

MS IN APPLIED COMPUTATIONAL INTELLIGENCE

Expected July 2020 | Cluj-Napoca, RO

EXTRACURRICULAR

INTERNATIONAL SCHOOL ON IMAGE PROCESSING (ISIP)

MAGNA CUM LAUDE

Jun. 2015 | Brasov, RO

STANFORD UNIVERSITY

MACHINE LEARNING COURSE

Jul. 2017 - Oct. 2017 | Coursera

NORTHWESTERN UNIVERSITY

IMAGE AND VIDEO PROCESSING COURSE

Mar. 2018 - present | Coursera

SKILLS

PROGRAMMING

Languages:

Python • C# • Java • SQL • JavaScript • PHP • C++ • Octave • LaTeX • C

Libraries and tools:

Numpy • Scikit-image • Pandas • Weka • Jupyter Notebook • .NET MVC • Entity Framework • CUDA • ReactJS • Android • React Native • Realm • Flask • PySpark • Scikit-learn • Scrapy • MPI

LANGUAGES

Romanian (native speaker) • English (fluent) • French (basic communication skills)

SOFT SKILLS

Leadership • Communication • Team work • Creativity • Organization

HOBBIES / INTERESTS

Analog and digital photography (published on clujlife.com multiple times) • Digital art

CONTACT

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PROJECTS

APERTURE DETECTOR | IMAGE ANALYSIS APPLICATION

Developed an algorithm for identifying the aperture in a photograph using digital image processing methods only. Used Python with Numpy, Scikit-image, Jupyter Notebook and various other libraries for algorithm implementation, Scrapy for crawling the dataset and MPI for parallelization.

MIDI KEY DETECTOR | MACHINE LEARNING APPLICATION

Built a classifier with a colleague which takes a Midi file as input and outputs the key that the song was written in. Used Python with Pandas and Numpy for data preprocessing, Weka for data visualization and for building the model and Java for building the application.

FITHUB | WEB APPLICATION

Developed a gym application with a team. Had the team lead role. Developed leadership and communication skills. Used .NET MVC for the backend with Entity Framework for database interaction and ReactJS for the frontend.

EXPERIENCE

EVOZON | PHP INTERN

Mar. 2016 – Jun. 2016 | Cluj-Napoca

- Developed a quiz web application.
- Team project - cinema web application using Silex.

EVOZON | JAVASCRIPT INTERN

Jul. 2016 – Aug. 2016 | Cluj-Napoca

- Team project - developed the frontend for a Game of Thrones online store using JavaScript, LESS and the Google Maps API.

ROBERT BOSCH | COMPUTER VISION INTERN

Jul. 2018 - Dec. 2018 | Cluj-Napoca

- Worked on elevated object detection algorithm for autonomous cars.
- Used image processing algorithms and probabilistic models (Bayesian Network).

IMATFIB | JUNIOR RESEARCHER

Dec. 2018 - present | Cluj-Napoca

- Researching intelligent methods and image processing algorithms with the goal of atrial fibrillation cause detection.

VOLUNTEERING

Oct. 2015 Hermes Society

Volunteered as photographer and content writer learned how to work within a team and how to communicate efficiently; improved creative skills.

Aug. 2016 - Jul. 2018 Hermes Society
PR Manager

Worked within the board; coordinated PR and content writing work; developed leadership skills and initiative-taking.

Dec. 2017 Hermes Society
hermesHackathon
Project Manager

Organized the hackathon; recruited and coordinated volunteers; learned the process of organizing an event; developed communication, leadership and problem-solving skills; learned how to coordinate a team.