

Ivan Lokas

Computer Science Enthusiast

I'm a computer science enthusiast with a goal of constant self-improvement



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EDUCATION

Computer Science

Faculty of Electrical Engineering and Computing Master's Degree

10/2021 - 07/2023

University of Zagreb

Computing

Faculty of Electrical Engineering and Computing Bachelor's Degree

10/2018 - 07/2021

University of Zagreb

Electrical Engineering

Technical school Šibenik

09/2014 - 05/2018

WORK EXPERIENCE

Software developer

Ultrax

10/2022 - Present

Zagreb

High tech sports solutions

Achievements/Responsibility/Tasks:

- Backend & mobile development
- Developed sport diagnostic test automation system
- Developed a video-based module to estimate athletes' jump height and authored a corresponding paper presented at the IEEE STAR 2023 conference

Team leader

Faculty of Electrical Engineering and Computing

10/2020 - 03/2021

University of Zagreb

Achievements/Responsibility/Tasks:

- Managed a team of 5 students in Software Engineering class project
- Participated in developing a solution for a real world problem
- Full-stack developer
- Practical use of automated software testing

TECHNICAL SKILLS

Programming - Java, Python, JavaScript, SQL, C/C++, PHP, Dart

Machine Learning - data mining, data visualization, deep learning, model development, statistical evaluation of model performance

Design Patterns - object-oriented programming, efficient development process

PERSONAL PROJECTS

Deep neural network architecture optimization with evolutionary algorithms (02/2023 - 07/2023)

- Master Thesis that tackles the topic of deep neural network architectures optimization with evolutionary algorithms

AES-128 (09/2022 - 09/2022)

- Cryptography and Cryptoanalysis course project which focuses on implementing the AES-128 symmetric block cipher

Deep Neural Network Classifiers (05/2022 - 06/2022)

- Deep Learning class projects, practical use of fully connected, convolutional and recurrent neural networks in Python and PyTorch

Predicting the outcome of NBA games (03/2022 - 07/2022)

- Data Mining class project/competition in Python and Pandas
- Ranked in the top 25% of the class

Task Management Application (03/2021 - 07/2021)

- Bachelor Thesis with the focus of creating a web application for simple and efficient task management in Java and Spring Boot

Vector Graphics Editor (05/2021 - 06/2021)

- Design Patterns class project, practical use of multiple design patterns in Java

JPA implementation of blog system (04/2021 - 05/2021)

- Software Development class project, web application with user-management functionality in Java, JPA and Hibernate

JNotePad++ (02/2021 - 03/2021)

- Software Development class project, replicated the functionality of text and source code editor in Java

Rent A Car (10/2020 - 03/2021)

- Software Engineering class project, web application for renting vehicles in Java and Spring Boot

LANGUAGES

English

