

Alen Murtić

14 Nabrežje, Horvati, 10 436 Rakov Potok
Zagreb, Croatia

murtic.alen@hotmail.com
+385 98/9755-058
github.com/murticalen

WORK EXPERIENCE

Sofascore

Front-end engineer

Jan 2021 – present

- transferred to front-end team on my own initiative in January 2021

Back-end engineer

Jun 2017 – Dec 2020

- web application written in PHP and Symfony framework, using PostgreSQL database and Doctrine ORM
- agile development environment with untested old/legacy code
- development of new features and refactoring/fixing existing code base
- mastered data collection from external sources
- part of a group designing and re-designing data parsing and persisting system, its architecture and each single component
- regularly attending app feature meetings with own suggestions, estimating feasibility and development duration of other people suggestions
- contributed to designing more cacheable API with less data transfer between server and platforms, especially focusing on edge cases and API readability
- on-call duties during out-of-office hours, fast reactions to problems during office hours
- mentoring junior colleagues and interns
- leading Symfony section of SofaScore PHP Academy in 2020

University of Zagreb, Faculty of Electrical Engineering and Computing, Croatia

Teaching assistant

Oct 2016 – Nov 2016

- Introduction to web and PHP basics for selected students in *Project class*

Team and personal projects / exercises

- managed or contributed to various team projects in different classes (e.g. *Project class*, *Software Design*)

EDUCATION

University of Zagreb, Faculty of Electrical Engineering and Computing, Croatia

MSc in Computer Science

Sep 2016 – Jul 2018

- **thesis:** *Developing Call Detail Records generator using simulation and SNA*
 - end-to-end system, written in Java and R
 - extracting features from real-life dataset to create synthetic data intended for data analysis
 - co-authored scientific paper about a prototype of system architecture
- **field of study:** data analysis
- **relevant courses:** *Machine Learning, Advanced Databases, Distributed Big Data Processing, Analysis of massive data sets*

- **thesis:** *Application logic and data layer development for an e-learning system*
 - written in C# using Entity Framework and mXparser, console front-end
 - database design and implementation with 50+ parametrized questions
 - representation of knowledge, intelligent tutoring, auto-generating exams
- **relevant courses:** *Databases, Object-oriented Programming, Design Patterns, Artificial Intelligence, Development of Software Applications*

TECHNICAL SKILLS

Advanced	<ul style="list-style-type: none">• PHP - Symfony framework – version 4 used everyday at work; Symfony 5 for a personal project
Intermediate	<ul style="list-style-type: none">• SQL, PostgreSQL – used everyday at work; general interest in databases and database model design and optimization• Java – language of choice for personal projects; a lot of experience with regular console apps; some with Swing, Android, JSP• R – personal go-to language for data analysis and visualization; completed course which includes, among other topics: R Markdown, dplyr, tidyr, ggplot2, stringr, lubridate, elements of statistics & ML• GIT – various strategies used for everyday work, combined use of command line, git GUI and IDE to get most productivity• OOP and design patterns – completed 2 related classes, actively discussing and improving code design at work• Intelligent tutoring systems and e-learning – BSc <i>Project</i> class and thesis
Basic	<ul style="list-style-type: none">• React, JavaScript, C#, Python, C, TeX

OTHER SKILLS AND INTERESTS

Languages	Croatian (native), English (fluent), German (intermediate)
Personality	calm, team player, precise, realistic
Interests	General secretary for KNBM Bayern Hrvatska (FC Bayern Fan Club Croatia) – since May 2013 – maintaining web forum after the founder retired and helping the president manage paperwork
Interests	advanced sports statistics, history, politics, finance, gaming