

Alen Murtić

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WORK EXPERIENCE

Sofascore

Backend engineer

June 2017 – present

- web application written in PHP and Symfony framework, using PostgreSQL database and Doctrine ORM
- agile development environment
- contributed to development of new features, maintaining and fixing existing code base

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

Teaching assistant

Oct 2016 – Nov 2016

- Introduction to web 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

Pursuing MSc in Computer Science

Sep 2016 – Jul 2018
(expected)

- **thesis:** *Developing Call Detail Records generator using simulation and SNA*
 - end-to-end system, written in Java and R
 - extracting features for actual 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*

BSc in Computing

Sep 2013 – Jul 2016

- **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

Intermediate	<ul style="list-style-type: none">• PHP - Symfony framework – used everyday at work• Java – language of choice for personal projects; a lot of experience with regular console apps; some with swing, Android, JSP• SQL, PostgreSQL – used everyday at work; general interest in databases and database design• 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• OOP and design patterns – completed 2 related classes, regular use for lab. exercises• Intelligent tutoring systems and e-learning – BSc <i>Project</i> class and thesis
Basic	<ul style="list-style-type: none">• GIT, Python, C#, 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