

Mario Borna Mjertan

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Mathematics student, full-stack developer

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About me

Mathematics student, full-stack web developer. I work on multiple non-profit projects, mostly in science popularisation and communication. Familiar with project management, system management and general IT.

Experience

Znanstvenik u meni! / Project Director

JUNE 2018 - PRESENT, LOCATION

Volunteer work as Project Director, consisting of general project management and organisation. Also volunteered in design, writing and software development.

Developed the website, web app for signing up to the competition and a service/server for managing video uploads and transcoding videos. Technologies used: PHP, Percona, MySQL, ffmpeg, Bash, PHP-CLI, WordPress, JavaScript, jQuery, Bootstrap.

DENO d.o.o. & Educateam d.o.o. / Full-stack developer

2018 - 2019

Part-time work on the revelin.hr backend and CMS, as well as parts of the frontend. Technologies used: PHP, Percona, MySQL, JavaScript, jQuery, Bootstrap.

Part-time full-stack work on the Educateam application infrastructure. Technologies used: PHP, Percona, MySQL, RedbeanPHP, Composer, Postmark, JavaScript, jQuery, Bootstrap.

Summer School of Science / Camp Organiser

2019 - PRESENT

Volunteer work as Camp Organiser for S3++, consisting of general project management, lecture and workshop organisation and web services management.

WISe - WorkIn' Science / Organization Member

2019

Volunteer work to help organise WISe, the career day of the Faculty of Science.

Worked with companies to help them prepare for WISe and helped them on the career day.

Education

Department of Mathematics, Faculty of Science, University of Zagreb / Mathematics (engineer)

2018 - PRESENT, ZAGREB

Currently pursuing a bachelor's degree in Mathematics.

Gimnazija Požega

2014. - 2018., POŽEGA

Top grades and exemplary behaviour. Collaborated on numerous projects and was part of the organization of many activities. Participated in many national competitions.

Awards

Award of the Ministry of Science and Education for best ranking students on the national university entrance exam, "Državna matura". Multiple competition awards in computer science and mathematics, as well as in English and philosophy.

Conferences and other lectures and works

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- Winter school of mathematics and computer science, 2014: "What is Linux?"
 - DORS/CLUC 2014: "Primary school student using FLOSS"
 - Europe Code Week 2014: "Making websites in HTML"
 - Winter school of mathematics and computer science, 2015: "HTML and CSS"
 - Europe Code Week 2015: "An introduction to PHP"
 - Pula Mathematics festival 2015: A mathematical walk through Slavonia, Dragana Blagojević, Ines Herceg, Marta Ivanko, Mario Borna Mjertan
 - Winter school of mathematics and computer science 2016: "An introduction to digital photo editing", Lovro Marković, Mario Borna Mjertan
 - Winter school of mathematics and computer science 2017: "An introduction to web application security"
 - Euromath MATHFactor 2017: "Making randomness: Pseudorandom number generators"
 - Day and Night at PMF ("Dan i noć na PMF-u") 2018: "Various proofs of the Pythagorean theorem", Filip Matić, Mario Borna Mjertan
 - Summer School of Science 2019: "Telling the future with mathematics: Probability and crime prediction"
 - The Night of Mathematics ("Večer matematike") 2019: "Clustered and Set"

Skills and languages

Software development: PHP, Python, C/C++, MySQL, Percona, MariaDB, PostgreSQL, HTML, CSS, JavaScript, jQuery, React, Vue, Bootstrap,

Foundation, Materialize, WordPress, AWS, DigitalOcean, Systems administration and management, Computer security

Mathematical interests: Cryptography, Linear algebra, Elementary mathematics

General and soft skills: Project management, communication, design, problem-solving and crisis-management

Developer tools I'm familiar with: Git, GitHub, Confluence, JIRA, Phabricator (including administration), Office 365 (including administration), G Suite (including administration), Composer, npm, WSL/WSL2, AWS, Azure, Google Cloud, Firebase, DigitalOcean, REST APIs, Solo, Mathematica, Slack

Languages:

Croatian, native

English, full professional proficiency

Slovak, elementary proficiency