



Valentin Kuharić

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▀ Intro

Hello, I'm Valentin! I enjoy building stuff, software and hardware. Since forever I've been tinkering with stuff, putting them apart, figuring out how they work. I have a passion for engineering and building cool systems in all shapes or forms..

Most of my career I've been developing and managing projects for the web and the mobile platform. I've worked in teams that were maintaining existing software and also building new systems from scratch. I enjoy exploring frameworks and design patterns, system design and always tinkering with new ideas and tools create fast, maintainable and bulletproof systems.

⌚ Professional history

Mercury Digital

Co-founder

📅 2019 – Feb 2022

📍 Rijeka, Croatia

- co-founded in 2019 with the aim to web development services
- managed a team of 4 developers
- led development of small to medium scale web development projects (backend and frontend)
- handled client relations, estimations and deliverables
- helped determine the overall project goals and KPIs
- handled the deployment operations on AWS and DigitalOcean platforms

MESOC

software developer, UI design

📅 Oct 2020 – Dec 2021

📍 Rijeka, Croatia

- lead the development of backend application of the MESOC toolkit
- helped define the overall look and feel of the application
- contributed in weekly meetings, worked on the MESOC CMS tool
- worked with the data team to create data visualisations

Coreline

Software developer, team lead

📅 Feb 2022 – Aug 2023

📍 Remote

- helped with development and maintenance of medium sized web projects
- filled team lead position for 12 months on a project where I led the development and maintenance of a backend, frontend and 2 react native codebases
- handled client relations and helped to determine project goals, deliverables and estimations
- learned a lot about deployment, build tools and similar concepts. Configured the deployment architecture on AWS from scratch, maximizing availability while ensuring compliance with HIPAA regulations

🎓 Education

Srednja škola za elektrotehniku i računalstvo

IT Technician

📅 2014 – 2018

📍 Rijeka, Croatia

- Natural step in my education due to my early found interest in mechanics and computing
- Presented a remote-controlled model vehicle with a simplified Rocker-bogie suspension system at FER

University of Rijeka

Bachelor's degree in informatics

📅 2019 – 2021

📍 Rijeka, Croatia

- Followed my passion of robotics and computer science
- Worked with a research team to design and build the web application MESOC Toolkit



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⚙️ Skills

- spent most of my career working on developing and maintaining **node.js**-based projects. I have experience working on medium sized **React** and **Angular** projects on the frontend side, while I also worked on **express.js** and **nest.js** based projects on the backend.
- My favourite programming activity is exploring **framework designs** and **design patterns**, while trying to incorporate them into different projects. I love exploring different possibilities to maximize **efficiency** while trying to create a **fast, maintainable, organized** tools to make coding easier for everyone.
- I have also spent considerable time with **AWS**, where I have worked on configuring a **backend, frontend and database deployments**, creating a load-balanced backend deployment on **Elastic Beanstalk**, RDS instances with backups and redundant copies, **CI/CD pipelines** for both backend and frontend deployments. Also I worked on securing the instances, keeping protected ones private and exposing them via **load balancers** and **bastion hosts**.
- I have also worked on designing systems and exploring different architectures for trading platforms and medical software, incorporating various external systems, smart contracts and APIs
- In some side projects I've explored the **ASP .NET** world, writing basic server applications. I used **Python** to write some **helper scripts**, such as managing node_modules directories across my directories. I have also explored the world of **C**, that helped me with understanding how processors and memory management work. This has also showed very useful for programming for microcontrollers such as **Arduino**.
- I have some basic knowledge of **electronics** and **electornic components** and **circuits**. I have worked with the **Arduino** platform on personal projects like **remote-controlled cars** and alike.

📄 Publications

- **MESOC Client-side Web Application Architecture in Node.js, Express.js, and React**

📅 2021.

📍 Rijeka, Croatia

- bachelors degree
- This thesis describes the requirements and the thought process of designing the architecture for the frontend part of the web-based application MESOC Toolkit

💻 Open source

- **Kamiq - a lightweight, batteries-included TypeScript web framework for Node.js**

• Created the project in July 2023 as a learning project

• Currently stable, supporting most used features in a server application environment

📋 References

Upon request.