Josip Rebrnjak

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WORK EXPERIENCE

Programmer

Multisoft d.o.o. [25/01/2016 – 31/12/2024]

City: Zagreb | **Country:** Croatia

DevOps Operations:
- Installation, configuration, automation, and maintenance of Web GIS systems (GE Smallworld) with customization according to client needs (front-end and back-end changes). The environment predominantly uses Windows Server 20XX.
- Implementation on network systems of HEP, HT, and the City of Zagreb. The system is distributed, utilizing technologies such as Smallworld DB (data synchronization alternatives), Smallworld Service Providers (services written in Magik code), JBoss RedHat as middleware, and Node.js (Openlayers.js, Require.js) as the client enabling detailed system configuration (LDAP/Derby/SimpleAuth authentication, changing application servers such as JBoss/WebSphere, etc.).
- Implementation of the "User Acceptance Testing" model for the deployment of the GE Predix (Mobility) system, initially on the internal network and later on the HEP network.
- The system consists of several technologies: exporter to CSV from Smallworld database written in Magik, Python scripts for data processing and preparation. Initially, Oracle 11g/12g was used, later Oracle Express, and after adjustments, PostGIS library and Postgres databases were implemented, populated with configured SQL scripts.
- Predix is developed on Spring Boot, running on Karaf, with Angular.js for service consumption and Nginx as the reverse proxy.
- Couchbase (NoSQL), Sync Gateway, and Lite enable synchronization with Android and iOS mobile clients.

Software Developer:
- Developed a Node.js web document server for document retrieval, with the ability to browse web folders, intended for integration with Web GIS. Deployed on the HEP network.
- Developed a system for document synchronization with the Smallworld desktop GIS, using the FME tool for processing documents and data for the City of Zagreb's cadastre. Deployed on the City of Zagreb network. Node.js REST API for internal communication.
- Edited a Node.js module to implement the proxy for the City of Zagreb.
- Developed an Apache Solr implementation (CRUD) for working with house addresses, specifically for HEP's needs. JSON or CSV data exported from Smallworld is loaded into Solr.
- Developed a simple web form (HTML5, Bootstrap, JQuery) for entering and retrieving related queries (City, municipality, street, ...) with "autocomplete" functionality.
- Developed a system for web communication and Web GIS operations between HT and other telecom operators. HT, as the owner of Croatian telecom infrastructure, was responsible for its maintenance.
- A system was developed to speed up and facilitate processes between operators. Technologies used: Node.js/Express.js (Passport sessions, session pooling, SSL), Postgres as the application database, MySQL InnoDB as the integration database (HT's choice and implementation, later maintained by me).
- The client runs on IIS10, developed with a combination of JQuery and vanilla JavaScript (ES6), Bootstrap, Openlayers.js, and served through the reverse proxy of HT's existing Web GIS system.

Other Responsibilities:
- Creation of SSL certificates via OpenSSL, writing certificate requests to HEP CA, and adjusting certificates for systems.
- Writing technical and user documentation for both GE systems and internally developed systems.
- Planning and approving the architecture of internally developed systems, guided by the technologies used by GE to help the company gain deeper knowledge for customization and maintenance of those systems.

- Editing and modifying all web user interfaces, except for the website on the Joomla CMS system, which I delegated to other colleagues.
- Entering components into the GIS system. Through the component entry interface, I mapped elements such as substations and high-voltage poles.

Java developer
Beta Tau Beta d.o.o. [29/06/2015 – 01/09/2015]

City: Zagreb | **Country:** Croatia

- Assisted in the development of various projects.
- Involved in both back-end and front-end development tasks.

Event security guard
Bilić-Erić Security [11/2014 – 01/2015]

City: Zagreb | **Country:** Croatia

- Worked at Arena Center during the Christmas sales period.
- I do not possess a security license, so I was registered as an assistant guard.

Craftsman carpenter
Godart [2008 – 2015]

City: Zagreb | **Country:** Croatia

- Assisted with carpentry work on occasion.
- Produced custom-made furniture.
- Van driver.

Warehouse operative
Nin d.o.o. [2010 – 2011]

City: Zagreb | **Country:** Croatia

- Performed occasional work during the import of goods

Motorcycle driver of deliveries
Catering Veloche [05/2010 – 07/2010]

City: Zagreb | **Country:** Croatia

- Delivered food using a scooter.

Warehouse operative
Kuehne & Nagel d.o.o [06/2009 – 08/2009]

City: Sveta Nedelja | **Country:** Croatia

Warehouse operative
Školska knjiga d.d. [06/2008 – 08/2008]

City: Zagreb | **Country:** Croatia

EDUCATION AND TRAINING

Bachelor of Engineering in Computer Science
Tehničko veleučilište u Zagrebu [2008 – 2015]

City: Zagreb | **Country:** Croatia

Inženjerstvo računalnih sustava i mreža

Secondary School Diploma in Electrical Engineering - Electrical Technician

1. tehnička škola TESLA [2003 – 2007]

City: Zagreb | **Country:** Croatia

LANGUAGE SKILLS

Mother tongue(s): Croatian

Other language(s):

English	Slovenian
LISTENING C2 **READING** C2 **WRITING** C1	**LISTENING** A2 **READING** B2 **WRITING** A1
SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1	**SPOKEN PRODUCTION** A1 **SPOKEN INTERACTION** A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and Interpersonal Skills
Excellent Communication and Active Listening:

• While working in telemarketing, I developed exceptional communication skills, including the ability to steer conversations according to the client's needs and effectively communicate complex information in a clear manner. Active listening and understanding user needs are key to my approach in everyday interactions.

Stress Management and Quick Adaptation:

• As a security guard at Arena Center, I learned how to stay calm and make quick decisions in dynamic and stressful situations. This experience has enabled me to adapt to all types of challenging environments, where the safety and well-being of everyone involved are always the top priorities.

Teamwork and Leadership:

• Through my long-term involvement with the American football club Zagreb Raiders, I built a strong sense of teamwork, developing the ability to collaborate effectively and offer mutual support. I learned how to motivate and inspire the team in tough times while respecting each member's role and strengths.

Building Interpersonal Relationships:

• I believe in the importance of building relationships based on trust and respect. My experience across various industries has taught me how to quickly understand and adapt to different personalities and needs, making me more effective in working with both clients and colleagues.

OTHER SKILLS

Other skills

Rapid Adoption of New Technologies:

- I am passionate about learning new technologies and refining my skills. A recent discovery for me (2025) is Udemy, where I found an incredible opportunity for self-directed learning and rapid knowledge acquisition. Through this platform, I'm constantly expanding my technical horizons and adapting to new tools and frameworks. Currently, I'm exploring Spring Boot, React.js, and Postgres, which make up my current personal tech stack.

Business Process Optimization and Automation:

- I enjoy analyzing processes and finding ways to optimize them. With my experience in DevOps, I regularly identify opportunities for automation, which helps reduce development and system maintenance time. The best part? It allows me to spend more time enjoying my coffee breaks.

Solving Technical Challenges:

- I thrive on tackling challenges and solving problems, whether it's with complex applications, databases, or integrations. I believe that the best solutions come through problem analysis and the application of innovative technological approaches. And if things don't go according to plan… well, I'll just keep banging my head against the wall until I break through to the other side. I do this job because I love the feeling of successfully completing a task!

Team Collaboration:

- While I have experience working independently, I most enjoy working in a team environment where we can share ideas and create better results together. I'm always willing to help my colleagues and share my knowledge to ensure the entire team progresses and succeeds.

ABOUT ME

About me

I can sit in front of the screen all day, with short breaks to walk the dog, or I can spend the entire day snowboarding in France – looks like I'm definitely the extreme type. The key for me is staying focused on the problem and working towards a solution, no matter the circumstances. I'm always looking for opportunities for both personal and professional growth, and teamwork is important to me because I believe that together, we can achieve the best results.