Lazar Furtula

Software Developer

East Sarajevo, Bosnia and Herzegovina   4+ years experience

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I am a Software Developer specialized in various tech stacks. Experienced in both frontend and backend development, I aim to evolve into the role of a software architect.

My career goal is to be recognized as an industry expert, delivering cutting-edge solutions related to the software development. Mission is to mastering modern technologies such as AI and blockchain, contributing to the continuous improvement of software development practices.

⚙️ Technical Skills

Front-End | 5 years: Next.js, React.js, TailwindCSS, Vue.js, Vanilla JS/HTML/CSS, Svelte, GraphQL, Apollo, Relay, i18n, Figma, Zeplin, UI UX Design, Project Architecture, Search Engine Optimization;

Back-End | 4 years: Node.js, PostgreSQL, MySQL, Procedural SQL, NestJS, TypeScript, GraphQL, API, Documentation & Design Tools, Postman, Auth, Microservices, DTO, Frameworks;

Software Development | 4 years: Docker, Git version control, Object-oriented programming, Migration managing, DB Administration, Protocols, Blockchain, Project Management, AI, DevOps, Software Testing, Jest, Security, Solution Architecture;

⚙️ Soft Skills

Team Collaboration Frameworks, Professionalism, Communication & Teamwork, Creativity, Time Management, Networking, SCRUM, Critical Thinking, Problem Solving, Technical, Continuous Learning, Writing, Presentation, Coaching, Proactive approach, Adaptability.

English | B2: Full Operational Proficiency with ability to engage in professional communication, including complex technical discussions and presentations.

💼 Work History

Back-End Developer
IT TECH | Servier.bar
https://it-tech.ba | https://dev.servier.bar

September 2023 - Januar 2024
4 months

As a Back-End Developer, my experience has been marked by a dynamic and enriching journey, primarily centered around the development and improvements of an online ordering platform. One notable aspect of my role involved implementing a Point of Sale (POS) integration, connecting with HubRise (https://www.hubrise.com). Worked on implementation of the WhatsApp Notification Service I extended the NestJS module by integrating the WhatsApp SDK and managing PostgreSQL database of the Servier.bar. This enhancement enables customers to receive timely notifications about their order status. The focus of this service was to provide real-time updates to customers, specifically sending SMS notifications when their food item is ready. For this I wrote JavaScript in the NestJS environment modules.

This task required a deep understanding of the NestJS framework, meticulous code structuring, and a keen understanding of the WhatsApp SDK and technical docs of WhatsApp Meta business (https://about.meta.com/technologies/whatsapp) documentation. The implementation of the WhatsApp Notification Service was a testament to my adaptability and willingness to explore innovative solutions and reading tech documentations, like Meta in this case. Worked on the server logic and made database changes to enable store owners to set the availability range for food items. This means that store owners can specify the time duration during which a particular food item has available for ordering.

`NestJS` `PostgreSQL` `Typescript` `Database Optimization` `POS Integration` `OOP principles`

Blockchain Developer
Atia Ltd
https://atia.ba

June 2023 - November 2023
6 months

During my work as a Blockchain Developer, I undertook a crucial role in implementing cryptocurrency transfers between specialized wallets. I worked on both the backend and frontend to ensure a crypto transfers works. On the backend, I utilized PostgreSQL and Node.js, TypeScript, connect it with Blockchain to build crypto transfer service. The implementation involved leveraging the solidity language in the blockchain to ensure secure and transparent transactions. I worked extensively with Microsoft Azure for infrastructure support, ensuring a reliable and scalable environment for cryptocurrency operations. Building on this experience, I actively participated in tracking cryptocurrency transactions, gained practical knowledge in the monitoring and management of transactions with the Ethereum blockchain. The project outcomes are ready to use new Aument Coin (https://www.aument.com) service for crypto transfer of the custom crypto coin, AUME, from one special wallet to another. Additionally I worked on improvements in the blockchain validation of the Aument Coin on the React Frontend side and API documentation for this special wallet transfer functionality.

`Node.js` `React.js` `Typescript` `PostgreSQL` `GitLab` `Blockchain` `3rd-party integrations`

JavaScript Engineer
2.am technologies
https://2am.tech

August 2022 - July 2023
1 year

As JavaScript Engineer at 2am Technology, a international outsourcing company, I worked on the project centered around JavaScript, Nest, and GraphQL technologies. My responsibilities included crafting high-quality code, writing comprehensive tests, and actively participating in the review process for pull requests. As a dedicated team member, I ensured that my daily updates and reports provided clear insights into the progress of my work, fostering transparent communication within the big collaborative team, together with SeeSaw Labs (https://seesawlabs.com) developers. The goal of the project was to elevate W. R. Berkley's system (https://www.berkley.com) by extending forms and enhancing admin accessibility. This development and project aimed to streamline data input for companies and facilitate policy requests through user-friendly forms. An achievement was the creation of a dynamic form, showcasing my commitment to complex functionality and expertise in ReactJS or NextJS, which was a key technology skill utilized in the project.

The introduction of a new service on the Berkley panel marked a pivotal advancement, providing diverse roles across different organizations with a powerful tool to handle and access complex data and forms. A strong understanding of Frontend and TypeScript, along with proficient problem-solving skills, particularly evident in my daily responsibilities involving code reviews. The project's outcomes included the introduction of a new service that empowered diverse roles and the implementation of a specialized form service for companies within Berkley, both contributing to a more robust and efficient system for handling complex data and forms. I contributed to a dynamic and sizable software development team with a primary focus on building new forms and implementing logic to manage policy data within the Berkley Admin System. During this experience, I elevated and enhanced my proficiency in GraphQL and TypeScript, especially Next.js framework.

`Next.js` `GraphQL` `Typescript` `Jira/Bitbucker` `Code review` `GitLab` `API Documentation`

Software Developer
TOB
https://www.tob.ba

August 2021 - September 2022
1 year

PostgreSQL with DynamoDB extending relations, working on type definitions, and implements server-side logic. I incorporated logic to store the state of users' policies and terms, establishing seamless connections with our server and database. I was managing translations by implementing an i18n service on both the React front end and Node back end. This facilitated the correct handling, storage, and display of translations in four languages: German, Italian, French, and English. Contributed to the project by writing JavaScript unit tests and adhering to best practices in Git workflow, commits, branching, and pull requests. The primary goal of the project was to create an efficient and secure platform for administrators to manage user data and roles within the company system. It was successful development of an admin user dashboard, equipped with required functionalities for managing other users' data and roles within the company system. The dashboard featured clear analytic views, including charts depicting company data, providing administrators with valuable insights. Several essential actions required for administrators were implemented, consolidating various functionalities into a unified platform. Achiements well-architected software system, incorporating the latest versions and updates to ensure optimal performance on both the React Frontend and its associated services, as well as the Node.js PostgreSQL and its services.

`React/TypeScript` `Node.js/PostgreSQL` `Localization i18n` `Auth0` `AWS DynamoDB` `Docker`

Full-Stack (BE-heavy) Developer
ITIS
https://www.itis.ba

October 2020 - July 2021
10 months

Actively I was working in backend development using Node.js, JavaScript, Apollo GraphQL, and PostgreSQL. An issue I remember, involved implementing functionality to calculate the subtotal of items within our online shop. This intricate task demanded aligning the calculation with the existing payment system, working with Stripe (https://stripe.com) for payment processing, and TaxJar (https://www.taxjar.com) for tax rate calculations. Within the database management, I adeptly coded PostgreSQL queries used a pl/SQL environment, enabling the creation of procedural PostgreSQL queries and pSQL functions. Ensuring code quality and functionality were one of requirements, leading me to write quality code and solutions, test cases for each feature.

We have used postGraphile library in the Node server for GraphQL query writing, leveraging the GraphQL schemas generated from the postgreSQL functions. This project showcased my proficiency across various technologies, including React, GraphQL, TypeScript, JavaScript, and PostgreSQL, spanning both frontend and backend development. I implemented backend logic for promo code service in ordering management, enhancing the shop's functionality and user experience. I took issues of the backend development for a USA based online shop specializing in pharmaceutical items. My responsibilities encompassed implementing complex logic to handle customer payments efficiently. This involved intricate server-side logic, ensuring secure payment process for users.

`React.js` `Typescript` `GraphQL` `Apollo/Relay` `PostgreSQL` `pl/SQL` `Testing`

📜 Side projects

Tech Lead
Companions Corp
https://companionscorp.com

September 2023 - Januar 2024
5 months

My responsibility in the team was a Tech Lead in a sustainability engineering startup Companions Corp (https://www.f6s.com/companionscorp). I actively contributed to building the Minimum Viable Product (MVP), speeding up the development process, and guiding the team in selecting optimal software solutions. My expertise in the utilized technologies positioned me as a Tech Lead, involving me in code reviews, tech solution meetings, retrospectives, and future plans. This software tech stack is MERN stack: React, Node MongoDB.

`MVP Development` `IT Consulting` `Software Development` `UI UX Design` `Leadership`

Administrator | Manager
Community Digital Rangers
https://it-tech.ba | https://dev.servier.bar

April 2022 - Januar 2024
1 yrs 10 months

This Community was an open nonprofit initiative that I leaded to foster professional development in the field of Information Technology. The community served as a platform for collaboration, skill-building, and knowledge-sharing, empowering participants to advance their careers and contribute to the thriving IT landscape in Bosnia. As a Mentor, Team and Tech Lead I provided a collaborative learning environment where young individuals can engage in discussions, learn together, and collaborate on diverse projects. It was professional coaching mostly related to the Software Development.

`Project Management` `Networking` `Software Development` `Mentoring` `UI UX Design`

Educator | Frontend Development, React.js
Educator | SQL 2019 Database Administration
EU & Lirex support to BH LEA: Specialized Training to LEA IT Specialists
https://lirex.com

September 2023 - Oktober 2023
2 months

LEA: Law Enforcement Agencies

For two months, I had been an Educator within a project supported by the EU and Lirex.doo (https://lirex.com). During the first month, I focused on Frontend Technologies, React and security stuff. In the second month, Database Administration using SQL. The main goal was to share IT knowledge within law enforcement agencies and BH policies agency, contributing to their tech knowlegde and improving their skills and understanding of whole software development processes.

Freelance | Full-stack (FE-heavy) Developer

Techsy | Upwork

June 2023 - Oktober 2023
4 months

https://techsy.io | https://www.linkedin.com/company/techsy

As a Freelancer Full-stack Developer for a client based in Estonia I worked to various projects, one of which was the web app Trustly (https://trustlynx.com/). My tasks included enhancing the UI to display a list of articles and making minor adjustments to improve responsiveness. The technology stack for the Trustly project involved Vue.js for the frontend and PostgreSQL for the backend. Additionally, I spent nearly a month working with the Svelte Frontend framework. During this period, I developed updates and implemented changes on the Techsy.io company website. I also created a new Svelte project from scratch and developed a portfolio website for a small Cleaning Service in Estonia: FjordGuard used Figma for design and Svelte for development. Also successfully freelanced at Upwork (https://www.upwork.com) for one month, collaborating with two clients CMS web apps, worked on the frontend issues React related.

`CMS Development` `Svelte` `Vue.js` `Communication` `Multitasking` `Directus` `UI UX Design`

Web Content Writter

Medium | Personal projects

April 2023 - September 2023
6 months

https://lazarf.medium.com

I write tech articles and stories on Medium (https://medium.com), showcasing skills in content creation, research, and a deep understanding of technical concepts. Actively engaging in both reading and writing, my focus is primarily on software development and engineering topics. This practice allows me to continually improve my English writing skills and provides me to valuable knowledge of modern technologies, offering a refreshing break from the demands of day-to-day work. As part of my personal projects, I am actively involved in creating and developing processes, specifically projects centered around software development. These nonprofit initiatives serve as a continuous platform for improving my skills in project management, mostly in software development or business solutions.

`Copywriting` `Technical writing` `Continuous learning` `Creativity`

🎓 Education

April 2010 - May 2014

High School "28 Jun" East Sarajevo

Power Engineering Technician

October 2014 - 2020 (not graduated)

Faculty of Electrical Engineering

University of East Sarajevo

⊛ Volunteering

May 2016 - Oktobar 2020

EESTEC
https://eestec.net
Project: Smart Technologies

IEEE Student Branch
https://www.ieee.org

BH Future Fondation
https://www.bhfuturesfoundation.org
Project: PLC Beckhoff Workshop