TEODOR ĐURIĆ

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EDUCATION

Faculty of Technical Sciences — Novi Sad, Serbia
Bachelor's in Software Engineering and Information Technologies — *Jul. 2021 – Present*

EXPERIENCE

Software Engineer — Jul 2023 – Dec 2024
Soft-tronic — *Senta (Remote from Novi Sad)*

- **Architected and implemented SmartServe, a full-stack SSR framework,** leveraging inversion of control and dependency injection to ensure a modular, maintainable codebase.
- **Collaborated** on various PHP projects, contributing code and assisting with development tasks.
- **Mentored** interns in coding skills and best practices, fostering a culture of knowledge sharing.
- **Spearheaded** the adoption of Git and GitHub within the company by pitching, preparing, and then delivering a presentation to the entire company on the benefits and usage of Git and GitHub.
- **Created scripts** using Python to scrape the client's old website for photos and information, and utilized the WordPress API to automate the creation of posts, significantly reducing manual data transfer efforts.
- **Automated** the process of loading smartcard information into web forms on a website using C++ and a government API coupled with a minimal local server to serve generated JSON data to the website.
- **Optimized** and cleaned up poorly designed and neglected databases.
- **Proactively addressed infrastructure needs** by taking on DevOps responsibilities.
    * **Dockerized existing projects** supporting hundreds of heat pumps (bes.rs) consisting of microcontroller backends, app backends (BES Heat Pump Controller) and the administrative webpage.
    * **Configured and maintained** the physical servers hosting the BES partner's software solutions.
    * **Developed GitHub Actions workflows** that automatically deploy updates to servers over SSH upon detecting new tags, significantly reducing manual deployment efforts and minimizing downtime.

SELECTED PROJECTS

SmartServe | *Go, Echo, Docker, MySQL, GORM, Git, GitHub Actions* — Feb 2024 – Dec 2024

- **Designed a flexible, decoupled architecture** that allowed component reuse across multiple projects, demonstrating the framework's scalability and flexibility. (e.g., SmartServe-Table, SmartServe-Hotel)
- **Developed SmartServe-Core**, a central library providing essential functionalities.
- **Implemented inversion of control** by using dependency injection and defining clear interfaces, enabling the framework to manage application flow and enhance extensibility.
- **Optimized performance and scalability** by continuously reducing complexity where it isn't needed.
- **Automated testing and deployment** using GitHub Actions, ensuring code quality and streamlining CI/CD.

SmartServe-Table (Food Plaza) | *Go, SmartServe, Templ (Go), HTMX, JavaScript, HTML/CSS* — May 2024 – Dec 2024

- **Developed a full-stack web application** for restaurant management using the SmartServe framework.
- **Engineered dynamic, responsive user interfaces** using HTMX reducing reliance on complex JavaScript.
- **Integrated QR code functionality** to enable seamless table ordering, enhancing customer experience.
- **Conducted end-to-end testing** with Selenium and Nix shell to ensure reliability and robustness.
- **Implemented Git tags and semantic versioning** to manage software releases, ensuring clear version control and streamlined deployment processes

Nebula | *Rust* — github.com/drag0dev/nebula — Jul 2023 – Sep 2023

- **Co-developed a key-value NoSQL database** in Rust for a university project, demonstrating adaptability and the ability to quickly learn and apply new programming paradigms.

Additional Projects | github.com/teodord25

TECHNICAL SKILLS

Languages: Go, Python, Rust, JavaScript, PHP, HTML/CSS, Bash, Java, C#, C++, Nushell, SQL, Lua, Nix
Frameworks: SmartServe (in-house custom), Echo (Go), Angular, WordPress
Developer Tools: Neovim/Vim/Vi, Docker, SSH, TMUX, Git, Github Actions, Nix Shell, VS Code, Visual Studio
Libraries: HTMX, Templ, React, GORM
Technologies: Linux, MySQL, PostgreSQL, NixOS, Nix, LaTeX
Natural Languages: Serbian (native), English (fluent), Hungarian (fluent)