

Miloš Zivlak

Software Engineer

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Currently	I am a self-employed web and mobile developer with a strong passion for working on embedded systems. In addition to my professional expertise, I actively dedicate my free time to build development tools that improves the software development workflow. Currently learning VHDL and Rust.	
Languages	C/C++ - Embedded Software, Drivers, Tools, Qt Framework TypeScript/JavaScript - ReactJS, SolidJS, React Native, Node.js, Frameworks and tools development Lua Script - Integration in C projects, NeoVim plugin development Python - Data analysis and data visualisation Java - Desktop and web development PHP - Web development, Laravel Framework Delphi - Desktop and business application development asm - Understanding of x86 assembly	
Data Access	SQLite - Mobile and desktop applications PostgreSQL - Web applications MongoDB - Web applications Supabase - Backedn as Service	
Dev Tools	Linux - Linux operating system Docker - Docker containers for development and production Vim/NeoVim - IDE/Code Editor, Plugin development git - Version control, GitHub, GitLab	
Microcontrollers	Atmel AVR - 8bit CPU Microchip PIC - 8bit CPU ESP32 - 32bit CPU STM32 - 32bit ARM based CPU	
Employment	Software Engineer, Self Employed Freelance work mostly on web and mobile applications. Technologies: JavaScript/TypeScript Node.js React and React Native SolidJS	2018-present
	Embedded Software Engineer, Fiscal Solutions Development of drivers for fiscal devices in ANSI C. Maintain core system for fiscal service. Design and develop framework for Lua integration for easier driver development. Implement core functionality for HTTP requests.	2017-2018
Education	Novi Sad School of Business BSc Applied in Economics	2018-present
	ETŠ Mihajlo Pupin High School degree in Mechatronics	2013-2017
Projects	Intepreter for Monkey programming language Intepreter for Monkey programming language written in TypeScript. Currently under development. https://github.com/zivlakmilos/ts-monkey-interpreter SonataJS SonataJS is framework for web applications development. Currently under development. https://github.com/sonatajs Glyco CH Mobile application for calculating CarbonHydrate and Insulin units. https://glyco-app.ch/ Fortis Programmable Logic Contrroller Firmware for stm32 microcontroller Software for programming Drink Inventory Desktop application for drink inventory management and calculation. Integration with digital scale and barcode scanner. Heating Controller Controller for central heating system. The primary focus of the project was to provide efficient control for the heating system. System based on AVR 8-bit microcontroller. Robotic Arm Robotic arm based on electro-pneumatic, PLC and Embedded Linux. Library for Fatek communication protocol in C programming language. Multi thread web service running on Raspberry Pi in C++ programming language Control software for Desktop (C++, Qt Framework), Android (Java) and Web (JavaScript, Websockets) https://www.youtube.com/watch?v=VMeoHwQxMtg Zinux Simple operating system for x86 platform. Supports printing characters on display and handling keyboard and timer interrupts. Written in C and Assambly. https://github.com/zivlakmilos/Zinux	