

# 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.	
Languages	<b>C/C++</b> - Embedded Software, Drivers, Tools, Qt Framework <b>TypeScript/JavaScript</b> - ReactJS, SolidJS, React Native, Node.js, Frameworks and tools development <b>Lua Script</b> - Integration in C projects, NeoVim plugin development <b>Python</b> - Data analysis and data visualisation <b>Java</b> - Desktop and web development <b>PHP</b> - Web development, Laravel Framework <b>Delphi</b> - Desktop and business application development <b>asm</b> - Understanding of x86 assembly	
Data Access	<b>SQLite</b> - Mobile and desktop applications <b>PostgreSQL</b> - Web applications <b>MongoDB</b> - Web applications <b>Supabase</b> - Backedn as Service	
DevOps Tools	<b>Linux</b> - Linux operating system <b>Docker</b> - Docker containers for development and production <b>Vim/NeoVim</b> - IDE/Code Editor, Plugin development <b>git</b> - Version control, GitHub, GitLab	
Microcontrollers	<b>Atmel AVR</b> - 8bit CPU <b>Microchip PIC</b> - 8bit CPU <b>ESP32</b> - 32bit CPU <b>STM32</b> - 32bit ARM based CPU	
Employment	<b>Software Engineer, Self Employed</b> Freelance work mostly on web and mobile applications. Technologies: JavaScript/TypeScript Node.js React and React Native SolidJS	2018-present
	<b>Embedded Software Engineer, Fiscal Solutions</b> 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	<b>Novi Sad School of Business</b> BSc Applied in Economics	2018-present
	<b>ETŠ Mihajlo Pupin</b> High School degree in Mechatronics	2013-2017
Projects	<b>Intepreter for Monkey programming language</b> Intepreter for Monkey programming language written in TypeScript. Currently under development. <a href="https://github.com/zivlakmilos/ts-monkey-interpreter">https://github.com/zivlakmilos/ts-monkey-interpreter</a>  <b>SonataJS</b> SonataJS is framework for web applications development. Currently under development. Contains for part: UI - MaterialUI Frontend - SolidJS Backend - Supabase Code Generator - Generate code for UI and business logic based on project requirements  <a href="https://github.com/sonatajs">https://github.com/sonatajs</a>  <b>Glyco CH</b> Mobile application for calculating CarbonHydrate and Insulin units. <a href="https://glyco-app.ch/">https://glyco-app.ch/</a>  <b>Fortis</b> Programmable Logic Controller Firmware for stm32 microcontroller Software for programming  <b>Drink Inventory</b> Desktop application for drink inventory management and calculation. Integration with digital scale and barcode scanner.  <b>Heating Controller</b> 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.  <b>Zinux</b> Operating system for x86 platform. Supports printing characters on display and handling keyboard and timer interrupts. Written in C and Assambly. <a href="https://github.com/zivlakmilos/Zinux">https://github.com/zivlakmilos/Zinux</a>	