



**DAVID BIRO**  
FULL-STACK WEB  
DEVELOPER

# Experiences / Jobs

## HVG 360° @ Stylers Kft.

**Docker** **SH** **NodeJS** **Typescript** **React** **SCSS** **Python** **Django** **Saleor** **GraphQL** **Apollo** **Gitlab CI** **Swagger** **Mocha** Jan 2020 - present

It's a work in an outstanding team at Stylers. We bring a modern microservice architected system for the HVG's new online magazine. I've already worked on almost every microservice.

## Scheduler for Bayer @ Stylers Kft.

**React** **Typescript** Dec 2019 - Feb 2020

One other developer and I internationalized the whole application while making some refactorings.

## Cleansheet for McKinsey @ Stylers Kft.

**NodeJS** **Mocha** **React** **Typescript** **MySQL** Oct 2019 - Dec 2019

One other developer and I joined a team to develop some new features to an existing project.

## OTS @ Stylers Kft.

**Python** **Angular** **Typescript** **PostgreSQL** Mar 2019 - Oct 2020

I was responsible for the discount calculation. I had to be on top of mathematics, especially in operation research and Graph theory, which I enjoyed a lot.

## Plugin development for Wordpress

**PHP** **Wordpress** **Woocommerce** **JS** **MySQL** in Aug 2018

I had to make an emailing plugin for newsletters. I extended it with an invitation module that allows you to send a regular customer registration link.

## Ecommerce for bikes

**PHP** **Wordpress** **Woocommerce** **MySQL** **SCSS** **JS** Apr 2019 - Sep 2020

I had to make an eCommerce for a man, but his requirements didn't fit well into Woocommerce/Wordpress. After 3 months, the site was so buggy because of the workarounds I had to make. I realized It would never be good enough, so I abandoned the project. It was an excellent lesson for me that changed the way I think. I started evaluating rapid prototyping, requirement planning, and other project sub-tasks that might help to avoid this failure. By the way, I made "Argep.hu", "Aurkereso.hu" integration, CSV file importer, shipping cost calculator, etc...

## KIOSK @ Continental

**PHP** **VueJS** **MySQL** **Laravel** **SCSS** **JS** Jun 2018 - Sep 2018

For the first time, I was developing a new kiosk system from scratch. There was an old, weakly-designed kiosk system there, so I renewed it by creating a new application in the Laravel framework and its documentation. Later, I got some developers for the same project. I had to review and help their work.

## ERP @ RIGO Kft.

**PHP** **JQuery** **MySQL** **JS** Jun 2016 - Aug 2016

I had to create an Enterprise Resource Planning software for a company that assembles a different kind of machines. The ERP system had to manage every single part of a machine. Logistics, warehouse management, work shift control, car status register, reports, emailing, to name a few. I wasn't alone, but I made the fundamentals and most of the features.

## Silkroad server website

**PHP** **JQuery** **MySQL** **JS** Jun 2016 - Feb 2017

I had to build a CMS (Content management system) for a game server. I used PayPal API here.

## Music-Team

**PHP** **VueJS** **MySQL** **SCSS** Jun 2014 - Aug 2017

In this project, I had to make a site where people can listen to/download music. The owner of this project loves music, and he also loved new features. I created my own PHP backend framework.

# Experiences / My Projects

## Vona1

NodeJS Typescript Rust Neon bindings React Electron

since Mar 1, 2019

It is a hobby project. I wanted to make a good launcher for tiling window managers for Linux. I implemented fuzzy search with Rust and used FFI to call it from a react frontend. This way, I improved its performance hugely. Currently, I am rewriting this clearly with Rust.

## VecJS

JS

since Feb 1, 2019

Vecjs is functional, immutable, feature-rich vector library, which provides infix operations as we used to use in math class. I think it still the best 2D vector library. I am going to make support for 3 and more dimensional vectors too. I plan to make a complete coordinate geometry library, which is also lightweight.

## ReactKonvaAnchors

JS React

since Feb 1, 2019

Konva is a canvas drawing library, and react-konva is a react library for using Konva inside the react context. My library provides "anchors" for react-konva, which is a CSS like positioning and sizing utility for Konva objects like rectangle, text. With this library, you can make HTML like behavior to convey objects (e.g., automatic width).

## FastEJS

JS

since Jan 1, 2019

The EJS is a well-known template engine for NodeJS. There were some issues with the original parser, and their code was also overly complicated, so instead of fixing it, I created another package for myself. It is about half the execution time of the original, but also more modular, and easier to maintain.

## ERScaffold

NodeJS React Electron Elixir Phoenix Docker

since Sep 1, 2018

I considered the Entity-Relationship model to be suitable for high-level abstractions, that I could use it to generate pre-configured websites that satisfy the given abstractions.

# Articles

## Beginners' Linux Guide Part 1

As a developer, I found Linux more usable and efficient in my workflow. It took some time to get used to it tho, but I want to help shorten this path for newbies. So I wrote this article.

on Jan 30, 2020

## Understanding Linux Graphical Stack by Creating a Window

Describes the Linux's graphical stack, from the GPU to writing a windowed application in Rust.

on Aug 1, 2020



# Skills

## Programming languages:

JS	TS	PHP	Python	Rust	SQL	GraphQL	Bash	Elixir	Java	C++	C
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## Markup Languages:

HTML	CSS, SCSS	JSON, YML, TOML
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## Other:

React	VueJS	Mocha	Jest	NodeJS	Apollo	Laravel	Django	Saleor	Phoenix
Neon bindings (Rust FFI)	Wordpress	Woocommerce	PostgreSQL	MongoDB	MySQL				
Bootstrap					JQuery				

## DevOps:

CI/CD	GNU	Linux	Docker, docker-compose
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## Theory:

Object Oriented Programming (OOP)	Functional Programming (FP)
Design patterns (SOLID, DRY, and much more)	Data science

## Software knowledge (in terms of a web developer position):

Adobe Photoshop	Adobe Illustrator	Gimp	Inkscape	Gravit designer
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## Human languages

Hungarian	Written English	Verbal English
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# Study

**University of Pannonia @ Veszprém, Hungary**

**Department of Computer Science**

**Software Engineer BSC**

**Sep 2016 - Jul 2019**

**Palfy @ Szolnok, Hungary**

**Electrical and Electronics Technical class**

**Sep 2012 - Jul 2016**

## Introduction

I'm an enthusiastic full-stack web developer with more than seven years of experience.

I'm precise all the time because I know the wrong code will be a pain later. So I'm trying to make the best code, the best architecture, and also the best documentation all the time.

I know countless different kinds of technologies, so learning another is just getting familiar with writing things differently. In addition, I have experience not just in technologies but also in applying design patterns and programming conventions.

As far as contributing concerns, I published several libraries and helped others with forming issues and with pull requests. I'm always helping others getting their jobs done.

## Contact



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