

Stepan Klos

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Location: Prague, Czech Republic

PROFESSIONAL EXPERIENCE

• Office of the Government of the Czech Republic

Fullstack Software Engineer

JavaScript (React), PHP, Python

February 2020 – Present

- Created React web application for on-line publishing of annual scientific results of the Czech Republic providing numerous interactive browsing modes and filtering options across fields and institutions.
- Lightweight REST API in PHP for React frontend, including data aggregation into ZIP files and data preparation for graphs in CSV format; all with extensive error handling.
- Dataset preprocessing pipeline for web in Python consists of converting results from PDF to PNG, zipping certain reports for static download-only section and creating build script of SQL database for downloading underlying CSV tables creation.

• SwimmPair for TJ Prostějov

Fullstack Software Project

PHP, Javascript, C#.NET (Xamarin)

October 2018 – November 2019

- Created model and web application for managing swimming competitions with custom drag&drop built via DOM API and with AJAX backing for smooth refreshless experience; situation-specific media queries for mobile view and print style.
- Model written in PHP consists of object classes and approx. 80 API functions utilising one or more database stored PROCEDURES (with loop calls, db locks, checksum controls), loading and storing data.
- Mobile app iOS/Android mimicking web administration functionality written in C#.NET using Xamarin, communicating with server via REST API calls wrapping PHP backend functionality.

• ELAI Prague

Web Developer

Wordpress, PHP, CSS

February 2016 – December 2016

- Innovation Week 2016 - Wordpress website, plugin customization, designing static presentation, workshop administration(30+), mailing functionality.
- Global Entrepreneurship Week Prague 2016 - Wordpress website, plugin customization, designing static presentation, workshop administration(100+), interactive final event schedule, mailing functionality.

• Freelance

Websites for customers

Wordpress, PHP, JavaScript, CSS

first money made when 11 y.o.

- jaromirstetina.cz (2015) - Member of European Parliament; social media integration.
- c-d-s.cz (2013) and heart-of-europe.org (2014) - Czech Debate Organization tournaments operations; Heart of Europe Debate Tournament 40+ international teams registrations/payments/calendar & stuff.
- autoservispolena.cz (2017) - Car repair and maintenance business; contracted with graphic professional.
- other - approx. 10 smaller websites built on custom PHP backends with HTML/CSS coding and interactive JS features.

PROGRAMMING SKILLS

• **Programming Languages:** C#, C++, Java, JavaScript, Bash

• **Frontend:** React, HTML5, CSS3, DOM, Bootstrap, Xamarin, Qt

• **Backend:** PHP, SQL, .NET, Linux, Docker

EDUCATION

• Bachelor's Degree in CS (in progress)

Charles University – Prague, Czech Republic

Practical projects in programming courses:

- C++ course - Stock analysis tool with UI plotting via Qt Framework,
- C#.NET course - UDP protocol for application data transfers,
- Java course - Web scraper using Selenium; different export options (html+css/csv/xml),
- Indiv. project - REST API (objects and lists utilisitng HTTP GET/POST/PUT/DELETE).