

# Stepan Klos

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Location: Prague, Czech Republic

## PROFESSIONAL EXPERIENCE

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- **Preava, Inc.** TypeScript, Go, Python  
*Full Stack Engineer* October 2023 – Present
  - Implementing business features across the stack (TypeScript/Protocol Buffers/Go/Docker Swarm).
  - Extensive testing to ensure adherence to SLA guarantees (End-to-end/Integration/Unit/Performance).
- **Prague Institute of Planning and Development** ES6 (React 18, Node.js), Docker and Kubernetes  
*Fullstack Developer & DevOps* February 2022 – February 2024
  - Developed two React/Node web applications for streamlining city planning processes in Prague.
  - Migrated flagship application called Geoportal to Azure AKS. Conducted a thorough evaluation of cloud options; managed AWS/DOKS, self-hosted K8s/OpenShift/Tanzu environments prior to the migration.
- **Office of the Government of the Czech Republic** JavaScript (React 17), PHP, Python  
*Fullstack Software Engineer* February 2020 – July 2021
  - Created React web application for on-line publishing of national 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 Prostejov** Vanilla JavaScript, PHP  
*Fullstack Software Project - Contract* 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 CSS 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.
- **ELAI Prague** Wordpress, PHP, CSS  
*Web Developer* February 2016 – December 2016
  - Innovation Week 2016 & Global Entrepreneurship Week Prague 2016 - Wordpress websites, plugin customization, designing static presentation, workshop administration (30+), mailing functionality.
- **Freelance** Wordpress, PHP, JavaScript, CSS  
*Websites for various customers and NGOs (10+)* since 2010
  - [jaromirstetina.cz](https://jaromirstetina.cz) (2015) - Member of European Parliament; social media integration.

## PROGRAMMING SKILLS

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- **Programming Languages:** ECMAScript 6, Go, Python, C++, C#, Java, Bash
- **Frontend:** React (Redux, Router), HTML5/CSS3, DOM API, Bootstrap, C++/Qt, C#/Xamarin (XAML)
- **Backend:** Node.js, Go, MongoDB, Docker, Kubernetes, WebAssembly, Linux, Firebase, PHP, SQL, .NET

## EDUCATION

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- **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 and cross-platform Xamarin App,
  - Java Course - Web scraper using Selenium; different export option formats (html+css/csv/xml).