

# Stepan Klos

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Location: Prague, Czech Republic

## PROFESSIONAL EXPERIENCE

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- **MSD (Merck Sharp & Dohme LLC)** Next.js, Python, Kubernetes  
*Technical Lead + Senior JavaScript Engineer* Nov 2024 – now
  - Managed transfer of GenAI tool from vendor to MSD; built and led a team of engineers to deploy it on AWS Kubernetes, develop new features, and optimize code and infrastructure for company-wide rollout.
  - Visited corporate HQ in New Jersey (3×, 2025) to align with the team, manage stakeholder relationships, resolve key issues; the project was core to AI transformation and FDA-facing clinical ops for Merck & Co.
- **Prague Institute of Planning and Development** ES6 (React 18, Node.js), Docker and Kubernetes  
*Full Stack Engineer & DevOps Engineer* February 2022 – February 2024
  - Developed two React/Node web applications for streamlining city planning processes in Prague.
  - Managed migration of flagship Geoportal application to Azure AKS. Conducted evaluation of cloud platforms; managed AWS/DOKS and self-hosted K8s/OpenShift/Tanzu environments before migration.
- **Office of the Government of the Czech Republic** React 17, PHP, Python  
*Full Stack Engineer* Feb 2020 – Jul 2021
  - Built a React app with PHP API and Python data pipeline to publish national science results efficiently.
  - Supported distribution of approx. half of Czech science funding - 1.77% of GDP via the M17+ method.
- **SwimmPair for TJ Prostějov** 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.
  - other - approx. 10 smaller websites built on custom PHP backends with HTML/CSS coding and interactive JS features.

## 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 (dropout)** Charles University – Prague, Czech Republic
  - Completed roughly 80% of math/programming coursework.
  - Ran popular meme page “Matfyz memes that will make you CVUT” with 5000+ likes.
  - Thesis: SwimmPair — Code: SwimmPair-Www; thesis: SwimmPair-Thesis-TexFiles (export thesis.pdf).