

# 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 deployment 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* Oct 2018 – Nov 2019
  - Developed web app for managing swimming competitions with custom drag&drop UI (DOM API), AJAX interactions, and responsive design for mobile and print.
  - Designed PHP backend with object classes and approx. 80 API endpoints using stored procedures (loops, locks, checksums) to read/write data.
- **ELAI Prague** Wordpress, PHP, CSS  
*Web Developer* February 2016 – December 2016
  - Innovation Week 2016 & Global Entrepreneurship Week Prague 2016 – Wordpress websites with plugins.
- **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 – ~10 smaller websites with custom PHP backends, HTML/CSS, 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).

## PERSONAL PROJECTS

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- **LightningEverywhere.com** React.js, Go, MongoDB, Docker
  - Collecting places accepting Lightning Network (Bitcoin L2) worldwide. See: [project](#), [code](#), [blogpost](#).