

Stepan Klos

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Location: Prague, Czech Republic

PROFESSIONAL EXPERIENCE

- **MSD (Merck Sharp & Dohme LLC)** Next.js, Python, Kubernetes
Technical Lead • Senior JavaScript Engineer Nov 2024 – Present
 - Led transfer of a GenAI solution from vendor to MSD, ensuring compliance and enterprise integration.
 - Built and led an engineering team to deploy on AWS K8s, add features, and optimize performance.
 - Delivered a scalable, secure GenAI tool central to Merck's AI transformation and FDA-facing operations.
 - Aligned technical delivery with business and regulatory goals through cross-functional collaboration.
- **Prague Institute of Planning and Development** ES6 (React.js, 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.js, 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, Linux
Websites for various customers and NGOs (10+) since 2010
 - jaromirstetina.cz (2015) - Member of European Parliament; social media integration.
 - other – approx. 10 websites with custom PHP backends, HTML/CSS, and interactive JS features.

PROGRAMMING SKILLS

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

EDUCATION

- **Bachelor's Degree in CS (dropout)** Charles University – Prague, Czech Republic
 - Completed approximately 80% of coursework in mathematics and computer science.
 - Thesis: SwimmPair — Code: SwimmPair-Www; thesis: SwimmPair-Thesis-TeXFiles (export thesis.pdf).

PERSONAL PROJECTS

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