Petr Kolařík

Frontend Developer

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Summary

Frontend developer with two years of experience delivering web application features to production: first in Java with JSF and Spring Boot, now in React and TypeScript on an employee portal. Bachelor's degree in Information Technology from Brno University of Technology, with a thesis on controlling a two-arm robotic workstation in mixed reality (C#, Unity, HoloLens 2).

Experience

Frontend Developer · ZooControl s.r.o.

Jun 2026 – present · Ostrava, Czech Republic

Frontend-focused full-stack development of an employee portal: attendance, time tracking, notifications and back-office administration.

Stack: TypeScript monorepo; React / TanStack Start frontend; backend work in Hono + tRPC with Drizzle / PostgreSQL.

- Delivered a drag-and-drop org-structure editor for the back office, including the API that saves the changes.
- Delivered document management: upload wizard, folder views, per-person access and bulk ZIP download.
- Delivered the absence and home-office request screens: create, edit and cancel flows, a manager approval queue and timed undo.
- Delivered notification screens (list, message detail, settings) for a customer-facing mobile app in React Native / Expo.
- Features delivered end to end, from Figma to production: mobile-first responsive UI and Czech / English i18n, with code review in a small team.
- Features covered by automated tests, mainly in Vitest and React Testing Library, with some Playwright E2E tests.
- Working with AI coding agents day to day: specifying the feature, reviewing the generated code and verifying it with automated tests before release.

Programmer · Inside Software s.r.o.

Oct 2024 – Jun 2026 · Ostrava, Czech Republic

Frontend developer in a two-person team (with the company owner) on an information system for running a small business: employee portal, CRM, invoicing and warehouse / stock tracking.

Stack: Java, JSF, Spring Boot, Hibernate / JPA.

- Designed and built user interfaces across many parts of the system in Java and JSF, integrated them with backend services and optimized components for production.
- All features went directly to production, with a focus on stability, usability and long-term maintainability.

Projects

fgg: in-house software delivery tool (team project)

The tool keeps a small team's tasks, decisions and meeting context in one place, syncs with an external tracker and can be driven by AI coding agents through MCP. It supports the delivery pipeline meeting → context → decision → code and tests → review → release → telemetry, with people making the decisions.

`Stack:` TypeScript, React, TanStack Query, tRPC, Effect, Zod; tests with the Bun test runner and React Testing Library.

Bachelor's thesis: robotic workstation with two robotic arms, controlled in mixed reality

Brno University of Technology, Faculty of Information Technology

- Programmed the workstation in C# and Unity.
- Used HoloLens 2 mixed-reality glasses to visualize and control the system.

https://www.vut.cz/en/students/final-thesis/detail/153717

Education

Brno University of Technology, Faculty of Information Technology

`Sep 2020 – Jun 2025` · Brno, Czech Republic

Bachelor's degree in Information Technology

Broad foundation in programming, information systems, electrical engineering and automation.

Jazykové gymnázium Pavla Tigrida (language-focused grammar school)

`Sep 2016 – Jun 2020` · Ostrava, Czech Republic

Skills

Core Java · JSF · React

Also worked with

Frontend	TypeScript, JavaScript, HTML, CSS, TanStack Start, Tailwind CSS
Mobile	React Native / Expo
Backend	Spring Boot, Hibernate / JPA, Hono, tRPC
Data	PostgreSQL, Drizzle ORM
Testing	Vitest, React Testing Library, Playwright
Tools	Git, Figma
Other	C#, C++, C, PHP, Bash, Python, Kotlin, AWK, Unity, HoloLens 2

Languages and more

Languages	Czech – native · English – C1 · Spanish – B1 · Japanese – A2
Certificate	Cambridge C1 Advanced (CAE) · Jazyková škola Cloverleaf Ostrava · 2019 – 2020
Other	Driving licence B