Sven Petroll

Senior software engineer with experience in product development, web performance and shared software platforms.

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Professional background

Freelance software engineer

2016 to present

Neustadt a.d. Weinstraße, Germany

- Custom Websites, software and technical consulting as a freelancer.

Digitec Galaxus AG

August 2018 to March 2025

Zürich, Switzerland

Senior Software Engineer · April 2020 to March 2025

Software Engineer · August 2018 to March 2020

- Established performance practices through monitoring, workshops and a Web Performance Guild. Combined Datadog and BigQuery analysis with tools for tracing regressions to source components and owners.
- Owned frameworks, platform development and delivery infrastructure with my team across the online-shop area. Improved PR and merge pipelines, automated analysis and test environments.
- Built experimentation infrastructure to inform product and technical decisions across the online-shop area.
- As Solution Architect, clarified requirements with stakeholders and guided rendering, caching and authentication decisions. Developed customer-facing features including product filters and navigation.
- Supported the online shop through on-call work and production debugging, and coached colleagues across teams.

Softtech GmbH

September 2015 to June 2018

Neustadt a.d. Weinstraße, Germany

Software Developer

- Helped centralize business data in a modular web platform built with ASP.NET Core and Angular. Implemented authentication and access controls.
- Developed a digital licensing solution to replace manual dongle and email workflows. Supported offline use and gave support staff tools to inspect licenses and resolve customer issues.
- Introduced automated testing and improved build processes. Developed SketchUp extensions in Ruby and JavaScript.

Skills, education and independent work

Tools and technologies

My professional work has centered on TypeScript, React and Next.js, with GraphQL and C#/.NET behind the interfaces. I also work with data and analysis tools such as Datadog, BigQuery and pandas. In personal projects, recent choices include TanStack Start, Convex and Ansible.

Education

IT Specialist for Application Development

August 2010 to June 2013

Vocational School Ludwigshafen and IHK. Completed apprenticeship at Commendo IT-Lösungen GmbH in Neustadt a.d. Weinstraße, Germany.

Computer Science studies

March 2008 to June 2010

University of Kaiserslautern. Four semesters; degree not completed.

Independent projects

Since April 2025, my focus has been on family and independent projects. Following the birth of our second child, we returned to Germany and built our family home. Alongside this, I continued independent study and personal projects in AI and modern web engineering.

Household finance software

A self-hosted application I'm developing to bring our household finances into one place, with transaction imports and reconciliation, including refunds and settlements.

KNX and Home Assistant

Tools for our smart home, covering KNX configuration and Home Assistant. One building configuration produces coordinated KNX import files, making changes to lighting, heating and shading repeatable.

Homelab

My homelab is where I work on the operational side of software: provisioning hosts, deploying services, maintaining backups and moving applications. I manage it with Ansible and Proxmox.

Programming competitions

Programming competitions gave me problems worth studying in depth. I built Tron, Ants and Tetris bots, researching algorithms and adapting them to the game. Replay tools and simulations let me compare ideas and learn from the results.

Languages

German: Native · English: Good working proficiency