

Robin Jarůšek

Relevant Experience

AI Software Engineer • **Apertia tech** Oct 2024 - Present

- Design, build, and deploy agentic AI solutions including chatbots, browser automation tools, business process automation, data analysis systems, and translation models for a wide range of clients. Leverage Python alongside cutting-edge open source technologies such as LangChain, LangGraph, AutoGen, Vanna, and more.
- Work closely with clients to understand their needs in a team with other engineers to bring creative ideas to life at an agile work pace.

Intern Mobile Developer • **Kyndryl** 2023 - 2024

- Developed **Plantiful**, a plant-care app designed to help users manage and care for their plants. We handled the entire development process, from planning and design to implementation and testing, while balancing work, resources, and preparation for other student competitions.
- The app includes features such as plant identification, watering reminders, and care tips. We completed the project on schedule and open-sourced it. It was a great opportunity to show that we can work as a team, manage time efficiently, and deliver a fully functional product.

Projects

Plantiful • [source code](#), [research paper](#), [article](#)

A cross-platform mobile application designed to help users take care of their plants utilizing AI, image recognition APIs and algorithmization. Our features offer flower recognition through AI, watering reminders, and all the important information about the user's plants. We won Best Business Pitch and placed second in Best STEM Project at [JA Expo](#), earning us a spot in the national finals. Completely open-source, written in React native.

Ombra

A full-stack admin panel for a small game development company to manage products and subscriptions, built with React, Tailwind CSS, shadcn/ui, and Flask with SQLAlchemy.

Hyprfolio • [source code](#)

An interactive portfolio website that simulates an Arch Linux environment with the Hyprland window manager written in pure JavaScript with no external dependencies or frameworks.

Sentinel • [server](#), [client](#)

Sentinel is a privacy and security-focused messaging application I co-created with my friend. It features end-to-end encryption and utilizes WebSockets, the Drogon HTTP web framework, and an SQL database to provide a secure and efficient communication platform. After completing the text-based user interface and proof of concept, we open-sourced it and moved on to other projects.



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Skills

Programming languages

Python, Javascript, Typescript, C++

Libraries & Frameworks

LangChain, LangGraph, React, Next.js, React Native, Tailwind CSS, Cmake, Framer Motion, MySQL

Tools & Platforms

Git, Docker, Firebase, Linux, Vercel

Education

VUT FIT Brno 2024 - Present

Languages

- **Czech** (native speaker)
- **English** (C1)
- **German** (A2)

Interests

Machine Learning, AI, Football, Gym, Linux, Chess, Motorsport and trying out new things, especially in tech