

Filip Žitný

Product Engineer · Full-Stack & AI

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EXPERIENCE

Product Engineer · Duvo (duvo.ai)

Dec 2025 – Present

- Build AI-powered automation that goes beyond copilot suggestions to complete end-to-end operational workflows where rigid scripts and prompts fall short.
- Ship product features across the stack in TypeScript and Python, working closely with the founding team to translate customer problems into shippable agentic solutions.
- Use Claude Code and other coding agents as part of daily workflow to scaffold integrations and accelerate delivery while maintaining production-grade test coverage and code review standards.

Software Engineer & Open Source Lead · Deepnote (YC W19)

Jun 2024 – Nov 2025

Open Source Lead (Jun – Nov 2025) · Software Engineer, AI Team (Jan – Nov 2025) · Data Scientist (Aug 2024 – Jan 2025) · Data Science Intern (Jun – Aug 2024)

- Led a cross-functional team of engineers to open-source Deepnote — an AI-first Jupyter replacement with real-time collaboration and deployable data apps — defining repo structure, contribution model, and release process.
- Built the LLM implementation layer and context engineering for the AI workspace as part of the AI team, shipping features that grounded model outputs in users' notebooks and data.
- As Product Engineer on the Growth team, drove SEO and product-led growth experiments in TypeScript / Next.js, owning the funnel from landing page to activated workspace.
- Started as Data Science Intern and converted to full-time Data Scientist on Growth, building data pipelines and dashboards in Python/SQL that informed marketing and product decisions.

Cyber Security Engineer · Global Payments Inc.

May 2024 – Sep 2024

- Designed security architecture and led migration of internal services from VMware to Kubernetes, hardening deployment pipelines for PCI DSS-compliant payment processing.
- Built defense tooling in Go and embedded DevSecOps practices into CI/CD, shifting vulnerability detection earlier in the delivery cycle.

Software Engineer · Digiteq Automotive

Mar 2023 – May 2024

- Built and maintained a Python framework for automotive test automation, covering Android infotainment systems and CI/CD execution at scale.
- Developed C++ desktop applications and core libraries, plus data processing pipelines used by QA and engineering teams.
- Trained AI models to represent driver behavior and infotainment interaction patterns for use in test scenario generation.

Co-Founder · HackNitra

Sep 2023 – Present

- Co-founded an NGO and community in Nitra, Slovakia bringing together developers, students, and civic technologists around open data, AI, public-sector digitization, and modern education.

EDUCATION

Czech Technical University in Prague — Informatics in Natural Sciences, Faculty of Nuclear Sciences and Physical Engineering · 2022 – 2025

Charles University in Prague — Computer Science, Faculty of Mathematics and Physics · 2021 – 2022

TECHNICAL SKILLS

Languages: TypeScript, Python, Go, C++

Frontend: React, Next.js

Backend & Infra: Node.js, PostgreSQL, Docker, Kubernetes, AWS / GCP / Azure

AI & Tooling: LLM application layer, context engineering, agentic workflows, Claude Code, Linux, Git, CI/CD