

Jozef Cipa

Backend Engineer

Node.js, TypeScript and Go, plus a passion for IoT and automation.

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📍 Prague, Czech Republic

Software developer with **10+ years of experience**, focused on backend and web applications. Most of my day happens in **Node.js** and **TypeScript**, with Postgres and AWS somewhere nearby, and **Go** is what I reach for when building my own tools. I think several steps ahead and try to predict the issues that bite later, and I'm not afraid to start things I know nothing about: **learning by doing** is my way to go.

// stack Core skills

LANGUAGES

TypeScriptGoSQLPHPPython

BACKEND

Node.jsREST APIsGraphQLPostgreSQLAWSFirebaseDockerKubernetesCI/CD

FRONTEND

ReactTailwindReact Native

HARDWARE / IOT

ESP32Raspberry PiArduinoTinyGoLVGL

// experience Work

2016 - present

■ **Backend Engineer** @ **LexisNexis** [via Henschman acquisition] March 2023 - present
Ghent, Belgium (remote)

- Build the backend systems behind **Lexis® Create+**, a drafting assistant that helps legal teams write contracts and manage knowledge without the busywork, so lawyers can focus on the actual lawyering.
- Joined through **Henschman**, a legal-tech startup acquired by LexisNexis, and carried the product through the transition into a large enterprise organisation.

stack: Node.js · TypeScript · PostgreSQL · AWS · React · Tailwind

□ **Backend Engineer** @ **STRV** January 2019 - February 2023
Prague, Czechia

- Delivered backend systems for US startups with great ideas, alongside the company's own products, moving between domains, teams and codebases as projects shipped.
- Made sure every employee can safely submit their concerns at **AllVoices**; helped people meet new friends on **PumpkinPie** and find new love on **Zoe** and **Surge**.
- Worked with **AiFi** on their checkout-free shopping revolution, and built **Actapio's** internal access system.

stack: Node.js · TypeScript · AWS · Docker · Kubernetes · Terraform · PostgreSQL · Firebase · GraphQL

□ **Backend Engineer** @ **BasisBoard** [part-time] March 2022 - September 2022
California, USA (remote)

- Helped a US-based startup build a new communication tool for the construction industry.

stack: Node.js · TypeScript · GCP · Microservices

□ **Junior Developer** @ **bart.sk** [part-time] July 2016 - October 2018
Košice, Slovakia

- E-commerce projects in PHP on a custom in-house CMS, part-time during high school, where I picked up the basics of doing this professionally: code reviews, deadlines, and all.

stack: PHP · Zend · XSLT · Node.js · React · MariaDB · Docker · GitLab

Novus github.com/jozefcipc/novus

2024

A CLI that streamlines managing numerous localhost services by giving them regular domain names instead of ports. Built-in HTTPS means every domain is secure by default.

[GO](#) [NGINX](#) [CLI](#) [HOMEBREW](#)**HomeKit Thermostat** github.com/jozefcipc/homekit-thermostat

2025

A smart thermostat on an ESP32 with a touch screen, an LVGL GUI, Wi-Fi provisioning, NTP time and the HomeKit protocol to talk to the Apple Home app. Built for ~40 €.

[ESP32](#) [C](#) [HOMEKIT](#) [LVGL](#)**Wordiez** wordiez.io

2026

Learn words from real content: collect vocabulary from what you actually read and turn everyday browsing into language learning. Web app with an iOS companion.

[REACT](#) [TYPESCRIPT](#) [IOS](#)

also: USB Button (TinyGo HID) · E-ink Weather (Cloudflare Worker) · rpi-ledctl (Go status LED) · WiFi Clock (ESP32 + VFD) · Bluetooth Tank (Arduino MEGA) · parallel-worker (Node.js library) · all at github.com/jozefcipc

[// talks](#) **Speaking**■ **Building a smart HomeKit thermostat with ESP32**

CZ/SK ESP Community Meeting · October 2025

■ **Migrating Data Between Clouds**

Online Backend Talk · February 2021

■ **Lightning talk about STRV dating apps**

Node.js Beers · August 2021

■ **Intro to Load Testing**

internal, STRV · January 2023

■ **ReactJS introduction**

WebElement · October 2017

[// blog](#) **Writing**

I write down what I learn at jozefcipc.com/blog: **35+ posts** on backend engineering, infrastructure and hardware, published since 2017.

■ **How I access my private homelab without a VPN**

July 2026

■ **Building a USB HID device with Pi Pico and TinyGo**

March 2026

■ **Database locks, lost updates and idempotency**

January 2023

■ **Assuming IAM roles and role chaining in AWS**

November 2022

■ **How we migrated all user files to AWS S3**

January 2021

[// education](#) **Education****High School of Electrical Engineering**

Prešov, Slovakia · 2014 - 2018

Information Technology & Networking

[// offline](#) **Beyond code**

Away from work I'm usually tinkering with **hardware and IoT**, or out **travelling, hiking** and **swimming**, and I'm always up for **good food**. I'd rather build something myself than buy it off the shelf: half the fun is that there's always something new to learn along the way.

Languages: Slovak (native) · English (professional)