

Kostis Maninakis

Senior engineer, peer-to-peer and developer tools

Hand me an idea and I can run with it end to end: architecture, code, UX, brand and launch. On my own, leading a small team, or joining yours.

I reimplemented Radicle's peer-to-peer node in TypeScript, from the Noise handshake to a Git fetch over protocol v2, so it runs in a browser tab. I work in Git internals and wire protocols, and in the web stack that puts them in front of people.

maninak@pm.me · maninak.com/cv/devtools · github.com/maninak · npmx.dev/org/maninak · crates.io/users/maninak
Vienna (CET), remote or hybrid · Contract, 20 to 30+ hours a week · EU citizen, no sponsorship needed
Greek (native), English (C2), German (B2)

In short

- Found and disclosed that Radicle nodes send private repositories in cleartext, a [critical vulnerability](#) whose fix brought Radicle 2.0 forward.
- [ts-xor](#), a TypeScript library I published in 2019, surpassing 200,000 npm downloads per week, with 25M+ in total and 6,800+ dependents.
- Building Grove, a peer-to-peer code forge like GitHub, with no server doing the work, in a browser tab. The first of its kind.
- stats.radicle.at, a thorough public accounting of the Radicle network's daily state, covering about 16,000 repositories on 1,900 nodes.
- Got elected tech lead of a struggling [EUR 4.5M construction platform](#), and took it to recurring revenue.

Recommended “Mr. Maninakis was a very motivated employee who realized the agreed goals extremely ambitiously and independently. His precise way of working and his assertiveness were remarkable.”
Markus Nenning, [Managing Director, Scable](#). [Read the letter](#)

“We would be happy to work with Mr. Maninakis again in the future.”
Patrick Ottenschläger, [Head of Software DevOps, Umdasch Group Ventures](#). [Read the letter](#)

Open source and products

Aug 2026 **ts-xor surpassed 200,000 downloads per week**

Aug 2026 – **radicle-backup**. Rust command-line tool, on crates.io.

- The de-facto standard tool for any Radicle user who wants to back up, verify, restore or move their identity, keys and private repositories. Runs as `rad backup`.
- Seeded by more nodes than 99.8% of the network's repositories (stats.radicle.at, 30 September 2026). Suggested to users in Radicle's support channel.

Jan 2023 – **Radicle for VS Code**. VS Code extension.

- Nearly 3,000 installs and downloads across the VS Code Marketplace and Open VSX.

Also: [@maninak/eslint-config](#) (since 2023) and [ts-xor](#) (since 2019).

Experience

Jun 2026 – **Founder and engineer at [radicle.tools](#)**

present Vienna. Own product.

- Building [Grove](#), a first-of-its-kind peer-to-peer code forge in a browser tab, in Nuxt and Vue over Rust wasm. [Early access](#).
- Wrote the network stack in TypeScript for the browser: the Noise handshake, the wire codecs, gossip, verified replication, and a Git fetch over protocol v2 that reads packfiles, sigrefs and Radicle's collaborative objects.
- Product, brand, site and launch copy.

May 2025 – **Family sabbatical**

- Became a father.

Oct 2022 – **Senior engineer, developer tooling at Radworks**

Apr 2025 The organisation behind [Radicle](#), a peer-to-peer GitHub alternative. Remote. Full time from January 2023. Freelance.

- Built the Radicle VS Code extension and still maintain it, with 21 releases since April 2023.
- Led Radicle Planning Boards, a funded Kanban tool for Radicle issues, and interviewed and hired its developers; the org paused it before launch.

Oct 2022 – **Senior front-end developer at [Umdasch Group Ventures](#)**

Dec 2022 The Umdasch Group's innovation hub, on its construction-site app [Sitelife](#). Freelance.

- On a React and TypeScript codebase, moved the build to Vite 4 and the tests to Vitest, cut lint time about 16x, upgraded Storybook and Tailwind CSS, and code-split the planning module.

- Nov 2021 – Sep 2022
11 mo
- Senior full-stack engineer at GenTwo**
Swiss fintech. Remote. Freelance.
- Took over gentwo.com with a free hand. Migrated it to latest Vue/Nuxt, resolved heaps of technical debt, put much more content in the CMS so pages ship without an engineer; fixed hundreds of UI and UX issues and overhauled performance, SEO, accessibility and security; trained the in-house team to carry it on.
- Jan 2019 – May 2021
2 yr 5 mo
- Tech lead at Sclable**
Vienna. Employed.
- Kontakt is a EUR 4.5M platform for the logistics and analytics of large construction sites. The team elected me its tech lead soon after I joined. I pulled the product from imminent failure into recurring revenue, leading up to 15 people across disciplines.
- 2014 – 2018
- Earlier roles**
BestPrice.gr, full-stack web developer (2018); Clearhaus, full-stack product engineer (2017); Plirono, founder and CTO (2016 to 2017); Omnixell, mobile app developer, intern (2016); Cretan Sport Cycling, web developer and product owner (2015 to 2016); FORTH-ICS, guest researcher, part time (2014 to 2015); university programming courses, private tutor (2014 to 2015).

Security

- Sep 2026
- Radicle nodes send private repositories in cleartext.** *Coordinated vulnerability disclosure.*
- Caught it when Grove's encrypted connections kept dying, because real nodes were not encrypting at all. Anyone on the path between two nodes can read every private repository they exchange. Radicle's announcement credits me with the report; my own write-up narrates how and what I found.
- Jul 2026
- Strict signature verification in heartwood**
- Noticed that the reference node had stopped rejecting weak Ed25519 keys after a crypto-library change; Grove already verified strictly. Co-authored the upstream fix, which switched to strict verification and shipped in Radicle 1.10.1 in August 2026.

Infrastructure I run

- Jun 2026 – present
- radicle-seed-prune.** *rad-prune, a seed operator's tool in bash.*
- Keeps a public seed's disk in check by pruning stale, abandoned and spam repositories, utilizing advanced heuristics and deep file analysis. One pass on radicle.at freed 18 GiB across 1,341 repositories; it runs there weekly.
 - Radicle's own maintainers run it on the project's official public seeds.
- Jun 2026 – present
- stats.radicle.at.** *Network analytics.*
- The de-facto standard site for any sort of Radicle-related analytics and insights, covering storage, replication, collaboration and traffic, rebuilt nightly in only 3 minutes by a scan, derive and build pipeline in Python.
- Mar 2024 – present
- radicle.at.** *Public Radicle seed node.*
- Mirrors about 82% of the network's public repositories (29 September 2026), and keeps users well-connected when Radicle's official seeds come short in the face of demand.
- Also: api.radicle.tools (since 2026).

Skills

Git and protocols: Git internals (packfiles, protocol v2, sigrefs), Radicle collaborative objects, the Noise handshake, gossip, binary wire codecs, WebAuthn and passkeys

Editor, browser and Rust: VS Code extension API and webviews, Monaco, Web Workers, OPFS; Rust for a CLI on crates.io and a wasm crypto core

Web: Vue 3, Nuxt, TypeScript, JavaScript, Vite, Tailwind CSS, progressive web apps, accessibility, performance, security, SEO

Testing and tooling: Vitest, Playwright, Cypress, Jest, ESLint rule authoring, pnpm monorepos, CI, npm publishing

Operations: bash, Caddy, systemd, Cloudflare Pages and KV, operating a public seed node and other 24/7 services on a Linux VPS

Talks

- Jun 2024
- Speaker, ViennaJS.** “Radicle: a sovereign, peer-to-peer, open-source network for code collaboration”.

Education

- Oct 2007 – Jan 2014
- Computer Science, undergraduate studies.** *University of Crete.*