Thomas Eizinger

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Passionate software engineer with a strong focus on code and software quality.
I love to share my knowledge through mentoring and talks. Always on a hunt for challenges to improve myself.

Work experience

05/2023 – now — **Engineer & Client lead**, *github.com/firezone/firezone*, remote, full-time
- Primary technologies: Rust, WireGuard, ICE, STUN, TURN, DNS
- Built a UDP-based hole-punching connectivity library for WireGuard
- Lead the design of `connlib`: Firezone's client-embedded data plane component
- Built a high-performance, property-based test suite for `connlib`
- Built a sans-IO TURN server

09/2022 – 01/2024 — **Contracted open-source maintainer**, *github.com/libp2p/rust-libp2p*, remote, part-time
- Primary technologies: Rust, libp2p, QUIC, TCP
- Built QUIC & TCP hole-punching compatibility test-suite between libp2p implementations
- Mentoring of external contributors
- Countless Dev-UX improvements

02/2021 – 05/2022 — **Tech lead**, *CoBloX*, Sydney (Australia), full-time
- Primary technologies: Rust, libp2p, Bitcoin, TypeScript, React
- Responsible for translating the company's vision into working software
- Involved in setting the internal team structure including the hiring process
- T-shaped skill-set around blockchain with expert knowledge on architecture
- All work is fully open-source on GitHub

03/2018 – 02/2021 — **Software Engineer**, *CoBloX*, Sydney (Australia), full-time
- Primary technologies: Bitcoin, Ethereum, Monero, Rust, TypeScript, React
- Responsible for designing and developing the COMIT protocol, a p2p network for non-custodial cryptocurrency trading
- Coaching colleagues on idiomatic Rust development

10/2017 – 02/2018 — **Software Engineer**, *Willhaben.at*, Vienna (Austria), full-time
- Primary technologies: Java, Spring Boot, Tomcat, Cybase and Postgres
- Conceived and introduced WHML: A markup language for consistent, dynamic forms across multiple clients

09/2015 – 06/2017 — **Software Engineer**, *Senacor Technologies AG*, Vienna (Austria), part-time
- Primary technologies: Java, Gradle, JSF, JPA, EJB, JBoss
- Development of the sales frontend for a major Austrian bank

07/2014 – 06/2015 — **Intern**, *IBM Softwaregroup Wien*, Vienna (Austria), part-time
- Primary technologies: Spring Boot, IBM Content Navigator, IBM WebSphere and DB2
- Configuration and extension of standard software and development of plugins at various client sites

01/2014 – 12/2014 — **Software Engineer**, *Akademikerhilfe Wien*, Vienna (Austria), part-time
- Primary technologies: PHP, iptables, SNMP and Linux
- Maintenance of a traffic contingent management software for student dorms

Things I know best

Languages	Rust (full-time since 2018), JavaScript (ES6+), C#, English (IELTS 8/9), Spanish(A2), German (native)
Concepts	Networking (IP, UDP, TCP, DNS, QUIC, ICE, TURN, NAT), FP, REST, TDD, Domain Driven Design, APIs, Modelling, Architecture

Things I like best

Distributed systems, REST (esp. Hypermedia), Open-Source, Cryptography, Design Patterns, DDD, DevOps, Architecture-stuff

Education

2015 – 2017	**Master of Science – Software Engineering**, *UAS Technikum Wien* Thesis: API-Design in Distributed Systems: A Comparison between GraphQL and REST *Graduated with distinction*
2012 – 2015	**Bachelor of Science – Computer Science**, *UAS Technikum Wien* Thesis: Documentation of RESTful Web Services Built in Java *Graduated with distinction*

Side jobs & freelancer projects

07/2022 – now	**Co-organiser**, *Rust Sydney Meetup*
WS 2017	**Lecturer**, *UAS Technikum Wien* Lecture: Single Page Applications in JavaScript – 1.5 ECTS
02/2015 – 06/2017	**Tutor**, *UAS Technikum Wien* C, C++, Java, C#, Design Patterns, Testing
11/2014 – 02/2015	**LiveEOG**, *UAS Technikum Wien* Prototype for controlling a PC using an Electrooculograph (EOG) Technologies: C#, WPF

Projects

since 06/2022	**xtra maintainer**, `https://github.com/Restioson/xtra`
09/2021 – 01/2024	**rust-libp2p maintainer**, `https://github.com/libp2p/rust-libp2p`
08/2018 – 10/2023	**testcontainers-rs maintainer**, `github.com/testcontainers/testcontainers-rs`
since 05/2018	**Curriculum vitae continuous deployment** As fun exercise and to ease changes to my CV, I version its TeX source files on GitHub and automatically deploy all changes to my website: `github.com/thomaseizinger/curriculum-vitae`
since 03/2016	**nobt.io**, *Open-Source Project (`github.com/nobt-io`)* Split your bills with ease Technologies: ReactJS, Redux, Java, AWS

Talks

CodeCrafts Vienna 2023	**Have we come full-circle on Web Development?**, *Thomas Eizinger* Recording: `https://youtu.be/pbQcVmzeE0E`
Scaling Bitcoin Tokyo 2018	**The State of Atomic Swaps**, *Thomas Eizinger* Recording: `https://youtu.be/FI9cwksTrQs?t=1022`
VoxxedDays Vienna 2018	**Flux: A modern way of doing MVC?**, *David Leitner & Thomas Eizinger* Recording: `https://youtu.be/h9SDuTSy7ps`