Eric Jingryd

Software Engineer — Gothenburg, Sweden
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Software engineer working mainly in Rust, focused on secure backends, security tooling and Linux systems. Career changer: fifteen years leading operations and teams before completing Systems Sciences coursework at the University of Gothenburg (2023-2025) and committing to software full-time. I build secure, well-structured systems with strong test coverage. My six largest projects each have more than 100 tests, and the Linux hardener is tested on six distributions. Right now I am building a booking system for the boatyard where I work.

Daily Linux user since 2019. I maintain packages on the AUR and have started attending the OffSec community meetups in Gothenburg. I work comfortably across European teams in seven languages.

PROFESSIONAL EXPERIENCE

Independent Software Engineer — 2024-Present

Self-employed, Gothenburg

- Hamnkapten, in development: sauna booking system for Killingsholmens Varv, where I work. A 14-crate Rust workspace with an axum API on PostgreSQL, a Leptos web app for guests and a Slint desktop admin. 1,100+ tests
- Constraint engine, closed source: a Rust constraint-satisfaction solver with parallel backtracking. Median solve time cut from 42 s to 140 ms
- Raven Nest MCP: pentesting server wrapping 22 security tools behind a 6-layer safety architecture. 46 MCP tools, 380+ tests, listed in the official MCP Registry
- Linux Hardener: plugin-based hardening with Ed25519-signed rollback, compliance reports against ten frameworks and six-distribution support, published on the AUR
- This portfolio: an Actix-web and PostgreSQL application with JWT and Argon2id authentication. My own penetration test of the live site found 0 critical, 0 high and 0 medium issues

Harbour Worker — 2010-2017, 2022-Present

VästVarv, then Killingsholmens Varv AB, Gothenburg

- Network setup, electrical work, and IT infrastructure maintenance alongside marina operations
- Logistics and harbour maintenance operations in a small boat harbour environment
- Forklift certification and category B driving licence

Operations, Bar & Register Manager — 2012-2021

Pusterviksbaren, Gothenburg

- Responsible for bar operations, staff management, and technical support at events
- Worked with point-of-sale systems and day-to-day service management

Team Leader and Bar Manager — Jul 2017-Sep 2018

Storms Pakhus, Odense, Denmark

- Led and coordinated team in Odense's largest street food market
- Responsible for daily operations, staff scheduling, and quality assurance

Operations Manager — Jun 2006-Mar 2015

Jazzklubben Nefertiti AB, Gothenburg

- Led operations across 6+ functional areas at a Gothenburg jazz and live music venue
- Managed staff scheduling, supplies logistics, and technical event support
- Coordinated bar, front-of-house, and light/sound support for live events

Administrator — May 2005-Apr 2011

FrölundaData AB (IT for Disabled), Gothenburg

- IT administration: order processing, invoicing, and inventory management systems
- Website maintenance, customer support, and production coordination
- Translation services and transport logistics

TECHNICAL SKILLS

Programming Languages
Rust (Primary), TypeScript, Python, JavaScript, Bash, C/C++ (C23, learning), C#, SQL

Frameworks & Tools
Actix-web, Tokio, PostgreSQL, SQLx, MySQL, SQLite, Redis, HTMX, Tauri, Leptos, Slint, GTK4, Bun, SolidJS, Docker, Git, JetBrains IDEs

Security
System Hardening, Penetration Testing, OSINT, OWASP Standards, Cryptography (Argon2id, Ed25519), JWT Authentication & RBAC, MCP-driven AI Pentest Tooling

Compliance
GDPR (applied: privacy notice, retention policy, data-subject rights), CIS Benchmarks (as hardening baselines)

DevOps & Infrastructure
Linux (Arch, Debian, Fedora, RHEL), Hyprland, systemd, Docker Compose, Virtualisation (VMware / VirtualBox / QEMU/KVM), VPN, CI/CD (GitHub Actions), nginx + Let's Encrypt

Packaging
PKGBUILD (AUR), RPM .spec, Debian changelog

AI & Machine Learning
BitNet b1.58 (hand-rolled in Rust), Transformer Architectures, Ternary Quantisation (STE), CUDA / cuBLAS / Tensor Cores, AVX-512 SIMD

Protocols & Standards
MCP (Model Context Protocol), JSON-RPC 2.0, Server-Sent Events, UCI (chess engine protocol)

LANGUAGES



EDUCATION

Systems Sciences
2023-2025

University of Gothenburg
Completed courses: AI & Machine Learning (VG), Cybersecurity (7.5 ECTS), Databases (VG, 7.5 ECTS), Introduction to Programming (VG, 7.5 ECTS), Human-Computer Interaction (7.5 ECTS), Society's Digitalisation (15 ECTS), Challenge-Driven Development (VG). Project work in Intermediate Programming, Organisations, and Strategy, Architecture & Governance.

Game Development
2019-2020

Malmö University
Game Design (7.5 ECTS), System Development and Project

Interdisciplinary University Studies
2005-2010

University of Gothenburg & Stockholm University
Courses in History of Ideas, Environmental & Natural Resource Management, and Portuguese. 120+ ECTS across humanities, natural sciences, and languages.

OPEN SOURCE PROJECTS

Raven Nest MCP
MCP pentesting server wrapping 22 security tools, plus opt-in Metasploit, behind a 6-layer safety architecture. 46 MCP tools, 380+ tests.
Rust, MCP, AI, Pentesting, Metasploit, OWASP, Automation, Security
github.com/tidynest/raven-nest-mcp

Linux Hardener
Plugin-based Linux hardening framework with signed checkpoint rollback. Ten compliance frameworks, six distributions, 2300+ tests, published on the AUR.
Rust, Tauri, Leptos, Trunk, WebKitGTK, SQLite, Ed25519, WASM
github.com/tidynest/linux-hardener

BitNet Toy
Hand-rolled BitNet b1.58 in pure Rust: SIMD and CUDA matmul, autograd, ternary quantisation, training and inference, with no ML dependencies.
Rust, CUDA, cuBLAS, AVX-512, Machine Learning, Transformers
github.com/tidynest/bitnet-toy

Hyprland Keybind Manager
GTK4 keybinding manager for Hyprland with conflict detection and automatic backups; published on the AUR.
Rust, GTK4, Hyprland
github.com/tidynest/hypr-keybind-manager