

Julian Krieger

Education

- 2022–2025 **M.Sc. Student in Information Security**, *Hochschule München*, Ø 1.3 (GER), Part time study, full time work.
- 2017–2020 **B.Sc. Student in Applied Computer Science**, *HTW Saar*, Ø 1.8 (GER).
- 2008–2016 **Abitur**, *Max-Planck-Gymnasium Saarlouis*.

Employment History

- Since 01/2025 **SecOps & Research Associate**, *University of Applied Sciences Munich*.
- Developed a vulnerability management workflow with scanner integration and automated stakeholder-centric risk evaluation and notification; Technologies: Nessus, Greenbone, SentinelOne w/ Rust
 - Deputy IT Security Officer; led incident response and information security teams
- 01/2023–01/2025 **Site Reliability Engineer**, *University of Applied Sciences Munich*.
- Supported large-scale enterprise architecture and infrastructure
 - Worked extensively with Docker, CrowdStrike, and CI/CD tools
 - Ensured site security with enterprise endpoint protection
- Since 11/2022 **Freelance Penetration Tester**, *Munich*.
- Conducted penetration tests for startups in TISAX/ISO 27001 compliance environments
 - Performed white-box testing focused on critical business infrastructure
- 04/2022–10/2022 **Integration & Solution Engineering Intern**, *PayPal*.
- Consulted medium-sized merchants with annual revenue over €10,000,000
 - Provided integration support for PayPal products and architectural guidance
 - Guided merchants in navigating PayPal's product portfolio
- 10/2020–03/2022 **UX Developer**, *Ergosign GmbH*.
- Developed web apps using TypeScript, Node, React, Angular, and Vue
 - Led consulting workshops for front-end architecture
 - Provided integration and training for content management systems
- 11/2019–10/2020 **UX Engineering Intern**, *Ergosign GmbH*.
- Evaluated content management systems for the Chinese market
 - Developed UX features using TypeScript and React.js
 - Bachelor thesis: cooperation project with Chinese joint venture YIGU
- 04/2019–08/2020 **Co-Founder**, *KGT Solutions*.
- Consulted on web and front-end solutions
 - Developed online shopping systems for clients

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06/2018–11/2019 **Internships – Security Solutions, Software Engineering**, *Consistec GmbH, Koramis GmbH*.

- Developed software for system hardening and configuration synchronization
- Contributed to KRITIS-ready IoT and VoIP transparency/anomaly detection frameworks

OSS & Security Research Work

cBRSKI-PRM, *European Dependable Computing Conference 2025*.

- State-of-the-art passive device onboarding scheme (Constrained Bootstrapping Remote Key Secure Infrastructure – Pledge in Responder Mode)
- Implemented and contributed to Secure Bootstrapping (BRSKI, BRSKI-PRM) RFCs in the Rust, Rustls, BoringSSL ecosystem with Siemens

Embedded Rust, *Research*.

- Developed embedded Rust software for the ESP32 platform
- Contributed to esp-idf, esp-svc-idf, native Bluetooth (NimBLE), JIT antenna switching, MetalIO & Tokio

Modern PL Malware Trends, *Research*.

- Authored paper on the use of modern programming languages in malware
- Advanced reverse engineering of malicious Rust binaries from VT/Malpedia datasets

Languages

- German – C2
- English – C1

Skills

- C
- Rust
- Elixir
- TypeScript
- Python
- Golang
- Docker & Kubernetes
- GitOps

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