Andreas Rauch — CV

Skills

Scripting & Automation

- **PowerShell (8/10):** Custom tooling, Windows automation, internal tooling support & mentoring
- **Python (6/10):** Backend tooling, multithreaded services, PDF processing pipelines, API integrations
- Exposure to Go, Rust, C, Zig – comfortable reading and adapting; still exploring preferred compiled stack

Infrastructure & Systems

- Built and maintain fully self-hosted infrastructure, from hardware to services
- Linux admin (Debian, Arch, RHEL, Ubuntu) – apt/YUM ecosystems, systemd, journaling, userland tuning
- Proxmox (light use) – container-focused VM orchestration, snapshot management
- Monitoring via Grafana, NTFY, and custom alert scripts
- Strong "control begins at hardware" mindset — DIY-first approach to all infra
- Customized Cron Jobs and Systemd services for specialized applications

Networking & Security

- Basic VLAN configuration, Cloudflare-backed firewalls, DNS via Pi-hole + Unbound
- Preference for key-based SSH, root-disabled configs, long-pass 2FA everywhere
- All services segmented, IoT contained in isolated VLANs
- Conceptual grasp of routing tables, dynamic routing principles

Containers & Orchestration

- Heavy use of Docker Compose, service orchestration via Traefik, Watchtower, and custom containers
- Built custom VS Code Server and job runner images tailored to dev workflow
- Kubernetes: Lab environment in progress

Identity & Access Management

- Actively integrating Authentik for unified SSO across self-hosted stack
- Previous experience with Keycloak, aware of LDAP fundamentals
- Managing production-grade IAM for separate user circles on a VPS

DevOps & Config Management

- Working Ansible experience in professional environment
- CI/CD exposure via basic automation chains; not currently managing complex build systems
- Version control with Git, GitLab-hosted repos (self-hosted)

Privacy & Philosophy

- Privacy-first, local-first architecture — deGoogled personal environment
- Self-hosted: Nextcloud, Vaultwarden, Mail (Migadu), Wiki.js, etc.
- Strict separation of roles, no unnecessary cloud dependencies

Soft Skills & Work Style

- Hybrid work style: independent execution with strong cross-team support
- Experienced in owning deliverables (e.g. PDF backend rewrite) from problem space to production
- Comfortable challenging assumptions and pushing for secure, maintainable solutions
- Documentation-first: Neovim + Markdown, Git-based personal knowledgebase. Formal tools at work

Professional Experience

Mid 2022 – Present · 3BANKENIT - Linux Systems Operations & Tooling

- Maintain and operate critical applications (core banking B2B, Atlassian Suite, Nextcloud) on RHEL servers
- Manage deployments and service lifecycle in test, integration, and production environments
- Automate infrastructure tasks with Ansible; use Docker Compose and Traefik for containerized services
- Responsible for system uptime, monitoring, incident response, and root cause analysis
- Perform system hardening, patch management, and internal security assessments
- Work in a small, high-autonomy team with significant technical ownership

Jan 2020 – Mid 2022 · 3BANKENIT - Test Automation and Windows Systems

- Managed test environments and scheduling for Tricentis Tosca across multiple tiers
- Developed and maintained PowerShell scripts for test automation and system tasks
- Administered Windows Server instances used in testing pipelines
- Implemented and tested feature updates and new Tosca versions
- Provided Level 3 support to internal QA and test teams
- Handled Tosca workspace and environment management

Apr 2018 – Dec 2019 · 3BANKENIT - Apprenticeship - QA & Test Infrastructure

- Supported test automation using Tricentis Tosca
- Wrote scripts (primarily PowerShell) to support test infrastructure and scheduled tasks
- Shadowed senior QA and infrastructure staff during deployments and test rollouts

Mar 2017 – Dec 2019 · BBRZ Gruppe Linz

- Completed vocational reskilling program focused on system administration and programming

- Gained practical experience through internships and hands-on training modules
- Specialized in infrastructure, scripting, and IT operations fundamentals

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Nov 2016 · BBRZ Gruppe Linz · *Zukunftschance*++

- Participated in career redirection program aimed at long-term workforce reintegration
- Initial step into the IT field following health-related absence

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2009 – 2016 · Health-Related Career Break

- Focused on recovery while pursuing self-directed education in computer systems and mathematics
- Explored technology through hands-on experimentation and personal projects
- Diversified knowledge across digital art, game design theory, and scripting fundamentals

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Mar – Apr 2009 / Sep 2008 – Mar 2009 · OÖ Landesbank AG

- Digitized and verified customer banking contracts
- Supported process optimization in the back office department

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Jul 2007 – Jan 2008 · AKH Linz

- Provided non-medical support to patients across hospital departments
- Transported patients between wards and diagnostics units

Education & Training

2021-02-11 · Apprenticeship: IT Specialist – Informatics

- Final Exam passed with distinction
- WIFI Linz / Austrian Chamber of Commerce

2020-01-03 · Apprenticeship: IT Specialist – TECHNOLOGY

- Final Exam passed with merit
- WIFI Linz / Austrian Chamber of Commerce

2023-07-19 · General University Entrance Qualification (Berufsreifeprüfung)

- Pursued and passed while working full-time in IT

2019-10-18 · TELC English Certificate – Level C1

- Advanced language proficiency equivalent to CEFR level C1
- Fluent in professional and technical communication, including documentation, negotiation, and public speaking
- Tested in reading, listening, writing, and speaking across academic and workplace contexts
- Capable of precise, nuanced expression — ideal for international teams and client-facing roles

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2023-01-07 · Project Management Competence Training

- LIMAK Austrian Business School

2021-12-04 · Complete Python Bootcamp

- Self-paced course via Udemy
- Focus on Python 3, scripting, and automation basics
- Completed alongside full-time work

Ongoing Development & Personal Projects

- **Self-hosted Homelab Infrastructure:** Containerized stack with Docker, Traefik, LDAP, DNS, mail, and automation workflows

- **VPS Hosting for Private Circle:** Nextcloud, Vaultwarden, Mirotalk, and other Big Tech-free services
- **Microcontroller Projects:** DIY hardware with Arduino/ESP for home automation and tinkering

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Let's talk if you want to know more.