# Alexander Holmbäck

## Systems developer in infrastructure and backend


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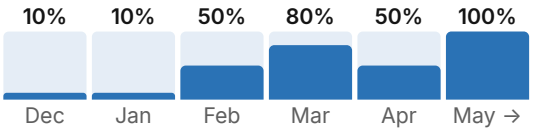
Sole trader, registered for Swedish F-tax


Availability, share of full time




## PROFILE

Systems developer with more than ten years of experience in backend, databases and business systems, and in building and running Linux-based infrastructure. I like working close to the systems and building solutions that are reproducible, automated and maintainable in the long run.

I build and maintain Kompismoln, a NixOS-based environment of eight machines that runs services and websites for associations and small organizations. I have worked with Ansible and Docker before, and have professional experience of databases, system integration and automation. In recent years I have also worked intensively with LLM infrastructure and AI-assisted development.

## TECHNICAL SKILLS

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|---|---|
| **Infrastructure & automation** | NixOS · Nix flakes · Ansible · Docker/Podman · Bash · SOPS · CI/CD · Git · Linux · system integration · Keycloak · API · REST · ERP integration |
| **Networking & operations** | WireGuard · IPv6 · DNS · VPS · on-premises servers · provisioning |
| **Databases & web** | PostgreSQL · Python · FastAPI · Svelte · C#/.NET · backend |
| **Soft skills** | Teamlead · Coaching · Teaching · ERP · CMS · CRM · Spreadsheet |
| **AI & LLM infrastructure** | vLLM · GPU inference · LLM evaluation · sampling and batching · reproducible experiments · AI-assisted development |

## EXPERIENCE

### Freelance / independent development and operations

2018–present

Building and running web services, Linux infrastructure and automated systems for my own projects and for small organizations, on a NixOS-based fleet where every machine follows one modular, declarative configuration.

- Automated provisioning of users, machines and services, where identity is used to generate IP addresses, WireGuard configuration, security keys and passwords.
- Built tools for key management with SOPS and Bash, with automated tests in Bats.
- Set up redundant WireGuard hub-and-spoke networks between environments.
- Run PostgreSQL, DNS, TLS, firewalls and scheduled database backups.
- Have run Nextcloud, Keycloak, Jitsi, email, WordPress and Mobilizon for several years.
- Set up CI/CD pipelines for dev/prod flows between local infrastructure and VPS.
- Since 2023 responsible for email, the domain and emergency support for esse.nu.
- Run klimatkalendern.nu, a Mobilizon instance with test and production environments and daily backups.
- Develop chatddx.com, with a Svelte interface on top of a FastAPI API.

### AI and research development

2026–present

Developing a research platform for systematically evaluating how accurately LLMs handle clinical vignettes, for Karolinska University Hospital, Huddinge, and Karolinska Institutet.

- Work with sampling, batching, reproducibility and analysis of model variation.
- Preparing a containerized deployment of the tool in a hospital environment.

- Use AI agents to write components of the development process, with a focus on specification, verification and code review.

**Backend developer** · Creuna AB 2016–2018

Backend development at a large web agency, mainly in Python/Django.

- Developed and maintained large web platforms, among them amnesty.se.
- Worked with Ansible and Docker for reproducible development and production environments.
- Also worked with C#/.NET and Microsoft-based environments.
- Developed and maintained, among others, Länsförsäkringar's intranet.

**Infrastructure & business systems** · Teknikmagasinet AB 2014–2016

Development and automation close to the company's business systems. Built a PostgreSQL cache on top of the business system for other systems to integrate with.

- Developed automations and internal tools to streamline administrative work.
- Developed reports and data for the business.
- Set up and administered a Linux server in a rack.

## EDUCATION

**Two bachelor's degrees in behavioural science**, 2009–2014
Majoring in cognition/neuropsychology and in gender studies.

**60 ECTS credits in mathematics**
and an exchange year at the University of California, Santa Cruz, studying philosophy and linguistics.

## LANGUAGES

| | |
|---|---|
| **Swedish** | native |
| **English** | fluent, spoken and written |