

THOMAS FRÖSSMAN

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Selected employers and projects

- **Tracklib AB**—Stockholm, Sweden (Music samples/stems web store, tracklib.com)

Software development: January 2023–Present

- Worked on on HTTP REST API's primarily in Python/Django.
- Also worked on a smaller amount of TypeScript and Go projects.
- The primary database is PostgreSQL but we also use DynamoDB, S3, OpenSearch, Redis, Memcached and others for various storage needs.
- AWS stack primarily built around ECS and lots of AWS managed services in Terraform.
- Worked within Payments/Subscription management, user revenue reporting and general new feature development and maintenance. .

- **23C**—Stockholm, Sweden (Various roles, 23c.se)

Software development: May, 2012–December, 2022

- Most of the work has been Python, Django, Go, JS, HTML, CSS contracting for many different customers.
- Built and maintain operations infrastructure for internal and customer deployments using Docker, Drone CI, Ansible, Terraform, Prometheus and Grafana.
- Mentoring junior programmers.
- Working in small, medium and large code bases.

Labelcaster AB (Music label digital catalog distribution service, labelcaster.com)

Development: January, 2020–December, 2022

- Developed an accounting/share distribution/royalty accounting/payout service in Go and PostgreSQL.
- Developed an cover art generator in TypeScript.
- Developed an PDF cryptographic signing service in Kotlin/javalin/junit.

Tracklib AB (Music samples/stems web store, tracklib.com)

Devops/Development: July, 2019–September, 2022

- Improve CI/CD processes using Drone, Gitlab CI on AWS/ECS.
- Import and manage the AWS infrastructure into Terraform resources.
- General system maintenance.
- Some development, primarily in Python and Go.

Baemingo/Min Go AB (POS/web shop systems, baemingo.com)

Software development: January–April, 2020

- Wrote various pieces of react native/react code in TypeScript.
- Introduced Cypress for testing a react web app.
- Worked on improving Travis CI/project linting.

Tracklib AB (Music samples/stems web store, tracklib.com)

Development: September, 2015–April, 2016

- Wrote a batch processing application for audio files for Python/Django.

- **Snowfish/Tunigo**—Stockholm, Sweden (Various roles)

Software development: March, 2007–May, 2012

- The company was acquired by Spotify in 2013 - [article](#)
- Worked within all stages of a growing stack of web based systems.
- Responsible for application design, implementation, support, documentation, testing, packaging, deployment, hosting, security and monitoring.
- Designed, implemented and evolved multiple applications and services mostly using Java, Jboss, Hibernate/MySQL, HTML/CSS and GWT.
- Created Debian based deployment using APT with Jboss/application packaging.
- Developed/Supported WordPress based sites with custom themes/plugins using PHP, HTML, CSS, JavaScript, jQuery.
- Designed client based application platform (Spotify app) using CoffeeScript (JS) custom build management using Cake/Node.

Selected open source participations

- **Django Minio storage**—github.com/py-pa/django-minio-storage

Maintainer and main developer (2017-Present)

- Django file storage implementation supporting Minio S3 object storage.
- Language: Python
- Framework: Django
- Uses tox and pytest to test multiple version combinations of Django/Python/minio-py.
- Uses GitHub actions as CI for running tests and doing PyPI releases.

- **Natbwmon**—github.com/some-programs/natbwmon

Maintainer and single developer (2020-Present)

- Natbwmon in an Linux NAT router bandwidth usage monitor.
- Language: Go

- **Imagor**—github.com/cshum/imagor

Contributions (2022)

- Imagor is an Image resizing and processing HTTP service.
- Language: Go

Patches

Two contributions created as a part of a company evaluation and adoption of Imagor

- **add network blocking support in HTTP loader**
Protect against Server-Side Request Forgery (SSRF) attacks.
- **forbid redirects to non allowed URLs**
A fix to the allowed sources feature that also checks redirects.

Other activities

- I have been programming since the late 80s since I was about 9 years old and never took a break since then.
- I have to varying degrees been involved with non profit organizations and contexts around social/cultural politics and the Art world.
- Co-represented projects for Manifesta 7 and the Vennice Biennale 2009 as a part of a artist/hacker collective.
- DJing / VJing / Making videos / Internet art / Performances, mostly active in the early to mid 00s.
- Was a member of the PC demo scene in the mid 90s to early 00s.
- I like fiddle in making music.

On skills and knowledge..

- Almost anything is easy but takes varying amount of time to implement or master.
- To stay **proficient in something** means long term diversified exposure.
- To be **familiar with something** implies solving of non trivial tasks.
- To have a **faded relation with something** means that I have worked with it a lot in the past but much of it is probably forgotten by now.

Skills

- **Speaks and writes:** Swedish, English
- **Operating systems:** Proficient in Ubuntu/Debian, Amazon Linux, MacOS, IOS. Familiar with Android, Windows, CentOS...
- **Programming languages:**
 - Proficient in Python, Go, PostgreSQL, JS, TypeScript, Shell scripting
 - Familiar with Emacs Lisp
 - Faded relation with Lisp, Java, Ruby, Haskell, C, C++, SuperCollider, MySQL, Pascal, PHP, Perl, x86/6502 assembler...
- **Web related frameworks and libraries:**
 - Familiar with NodeJS, React
 - Faded relation with WordPress, GWT, JSF, Jboss, Ruby on rails, Jekyll
- **Document standards and markup languages:**
 - Proficient in HTML, XML, Markdown, OrgMode, godoc
 - Familiar with CSS, SASS/SCSS
 - Faded relation with Sphinx, Javadoc
- **Web servers:**
 - Proficient in Django, Nginx, Traefik, uwsgi, gunicorn, uvicorn
 - Faded relation with Apache httpd, Apache Tomcat
- **Project/Build automation:**
 - Proficient in Python packaging, Go modules, Docker
 - Faded relation with Gradle, Maven, Ant
- **Source code management:**
 - Proficient in Git
 - Faded relation with Mercurial, Subversion, CVS, DARCS
- **Project management/issue tracking:**
 - Proficient in GitHub, Gitlab, Jira, Notion
- **CI/CD:**
 - Proficient in Drone, GitHub Actions
 - Familiar with Gitlab
 - Faded relation with CircleCI, Travis, Jenkins
- **Test frameworks:**
 - Proficient in Go test, pytest, tox, unittest, Cypress
- **Provisioning/infrastructure:**
 - Proficient in Ansible, Terraform