# JONAS LILJESTRAND

## Software Engineer
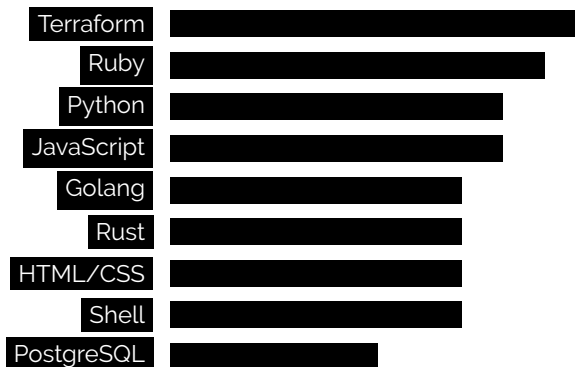
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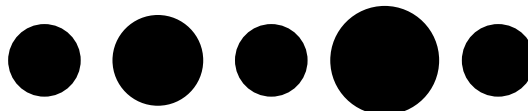
keybase.io/jonasliljestrand

## WHO AM I?

I am a developer with interest in building useful solutions. I have a passion for learning new things that can help me solve upcoming problems. I think collaborative work is awesome and really appreciate creating solutions as a team. You will find me most skilled in managing cloud infrastructure, but I'm also comfortable working with test driven software development. It is also possible finding me decoding binary protocols in WireShark.

**My strongest languages**

- Terraform
- Ruby
- Python
- JavaScript
- Golang
- Rust
- HTML/CSS
- Shell
- PostgreSQL

API design · Backend · Frontend · Infra · Networking

## MY DEVELOPMENT PHILOSOPHY

I follow the ethos of the software craftsman, where the tools used are adjusted according to the situation at hand. Delivering value is most important, then it is making sure that the legacy I leave behind stays valuable for a long time. Solutions and code needs to be maintainable and understandable by as many people as possible. I try to avoid overly clever solutions, and I try to pick conservative tech stacks where appropriate.

Everything I do is test-driven and I strive for quick feedback cycles, both from colleagues and from users.

In order to deliver software efficiently, one must also work well among other people. Coding is not a solitary activity, and being able to work together with other people of many different backgrounds and skill levels is important. I enjoy working in this condition and I love sharing knowledge and understanding other people's perspective on things.

**Mantras**

- No code is better than a lot of code.

- Dependencies are expensive, but custom code can be more expensive.

- Explicit is better than implicit.

- Code should be working, maintainable, consistent, fast — in that order.

- Testing is not optional (but is so much more than just writing test suites).

- Tools should help us. Linters and auto-formatters reduce mental burden.

- Real craftsmen sign their work proudly.

- "Legacy" should not be an ugly word; It's what we all leave behind us.

- Most people are well-meaning and knows things I don't know. Don't assume either malice or stupidity.

- Measure twice and cut once.

## EXPERIENCE

**Sept 2021 – Present**   **Software developer consultant**                                    **Devbox**
Devbox is a consulting firm. My individual assignments are listed below.

**Sept 2021 – Present**   **Software Developer**                                    **Joint Academy**
via Devbox
Joint Academy connects patients with licensed physical therapists to deliver online treatments
for chronic joint and back pain.
I was part of the platform team helping design a microservice infrastructure to support future
growth. My role involved moving the entire infrastructure to AWS, built a new authentication
service utilizing BankID and helped improve codebase test coverage.
`Ruby / AWS / Docker / TypeScript / Postgres`

**Mar 2017 – Sept 2021**   **Software Developer**                                    **Hemnet**
Hemnet is Sweden's largest property portal and one of the largest websites overall, with mil-
lions of unique visitors each week. About 1/4 of the Swedish population visits Hemnet occa-
sionally.
I've been working in the Platform team, which deals with internal services, APIs, infrastructure,
developer tooling, data storage and retrieval, and developer outreach. My role over the years
has involved migrating Hemnet to `AWS`. As part of that I built CI/CD pipelines in `Jenkins` that
build, tested and shipped `Docker` images. Also acted as the developer sales department could
bring to external meetings when technical expertise was required.
`Ruby / AWS / Docker / Terraform / Jenkins / Postgres`

**May 2015 – Mar 2017**   **Full-stack developer**                          **Get a Newsletter Scandinavia AB**
Get a Newsletter is a marketing tool for creating and sending of newsletters per email. The
majority of the time I was there I worked as a single developer managing all parts of the system.
That included configuring `PowerMTA` for sending millions of emails per day. I was hired as a
frontend developer since I had experience with `AngularJS`.
I built and shipped code that was used in the tool for creating the newsletters. During this time I
had to learn `Puppet` in order to maintain the infrastructure. I also worked with rewriting a `Python`
backend service for improving concurrency of generating emails to be able to handle more
daily customers. For this I introduced `RabbitMQ` which was a very good fit. The migration for
that was really exciting and was handled without downtime for end users.
`Javascript / AngularJS / PowerMTA / Puppet / Python`

**Sept 2014 – May 2015**   **Mobile/Web developer**                                    **Vimy**
Vimy is a job search site that was called YouLinker when I worked there. I was part of a team
that worked on a solution for replacing the paper CV with recorded video presentation. The
solution worked for some professions like sales. The application was written in a framework
called `Ionic` that used `Cardova` to cross compile into native mobile applications.
`AngularJS / Ionic / Cordova / HTML/CSS`

**Apr 2014 – May 2015**   **Software Developer/Co-Founder**                                    **Give AB**
continued from previous
Creddly team pivoted and started creating Give. The social gifting app where people could
buy and send coupons via SMS or social media to friends or family. The coupon could then
be used in a physical store to redeem the gift. It was an awesome feeling building this and it
still makes me happy thinking of the first time we went to the store next door and redeemed
our first ice-cream. Later the focus shifted against business to business. I built the `single page`
`application` in `AngularJS` where customers could manage their gifting campaigns. I was also
responsible for writing the API the frontend consumed which gave me a lot of experience with
`MongoDB` and `NodeJS`. I also built and designed the API external partners could integrate Give in
their workflows for automating gift delivery. Give was acquired by an other company in 2017.
`NodeJS / MongoDB / AngularJS / API Design`

**Apr 2013 - Apr 2014**   **Software Developer**                                    **Creddly AB**
Creddly was a social shopping app for both iOS and Android. I was working on building a back-
office web application for managing the products available in the system. The backoffice ap-
plication had a frontend and backend which I designed myself.
`NodeJS / MongoDB / AngularJS / API Design`

**Sept 2011 - Apr 2013**   **Software Developer**                                    **Return Great AB**
Consulting firm with the idea that we iterated and improved our clients business ideas, de-
veloped them and returned a great product. We were also in charge of ComHem and
Mekonomens's web based employee motivation systems. These were quite old and outdated
systems written in `ASP.NET` with a `MSSQL` database.
`ASP.NET / MSSQL`

## EDUCATION

| 2003 – 2005 | **Secondary Education** | **Vasagymnasiet Arboga** |
|---|---|---|

I finished my secondary education of a custom program that combined software development, programming, and natural sciences.

## OTHER POSITIONS

| 2020 – Present | **Materials Manager** | **Nacka Hockey - Team 13** |
|---|---|---|

I'm currently a materials manager for my sons hockey team. Where I'm responsible for having the equipment need. Also spend some time sharpening skates. This is really funny and good practice for leadership.

## LANGUAGES

**Swedish** - native
**English** - proficient

## HOBBIES

I love playing music at parties and has been a part-time DJ for over 10 years, playing at private parties and nightclubs. I really like the combination of seeing people happy and being a bit nerdy with all audio and DJ equipment. I have also performed some live streaming and really enjoy creating interesting video angles.

I love playing video games, watching moves and playing around with both hardware and software.

I also like outdoor activities like skiing, hiking. And I'm playing veteran ice hockey, soccer and padel and like being healthy.

## TOOLS AND SKILLS

### Languages

- Terraform (expert)
- Javascript / Typescript (expert)
- Ruby (intermediary)
- Python (intermediary)
- Rust (intermediary)
- Shell / Bash (intermediary/expert)
- Go (intermediary)
- Groovy (entry-level)
- PHP (long time ago)
- Puppet (intermediary/expert)

### Methodologies

- Agile
- BDD / TDD

### Tools

- Docker
- Git
- UNIX systems
- Vim

### Services

- AWS
- Elasticsearch
- PowerMTA
- RabbitMQ
- Jenkins
- Memcached
- PostgreSQL
- Redis
- Logstash
- Kibana
- NGiNX
- Locust