# MIKAEL HENRIKSSON
## SENIOR SOFTWARE DEVELOPER AND DESIGNER

mikael@mhenrixon.com                 mhenrixon.com                 +49 173 572 85 24
github.com/mhenrixon                                              linkedin.com/in/mhenrixon

## SKILLS

- **Languages:** Ruby, Lua, JavaScript, HTML, CSS, SQL, pSQL, ShellScript (bash fish)
- **Frameworks:** Ruby on Rails, RSpec, Sidekiq, Hotwired, Turbo, PostgreSQL, StimulusJS, TailwindCSS
- **Databases:** Redis, PostgreSQL, MySQL, MariaDB
- **Tools:** Docker, git, GitHub, Dokku, Terminal, Continuous Integration

## PROJECTS

**Sidekiq Unique Jobs** github.com/mhenrixon/sidekiq-unique-jobs

*Ruby, Redis, Lua, Sidekiq*

- Prevents duplicate sidekiq job with a fancy redlock mechanism
- Uses Lua scripts for performance
- Been supporting it since July, 2012 when I extracted it from Sidekiq
- Object oriented code base that is a pleasure to work with

**Yoga Durgaya**

*Ruby, Ruby on Rails, TailwindCSS, Stimulus, Hotwire, Turbo*

- A simple website for yogadurgaya

## EXPERIENCE

**HL Design & Media AB**, Växjö, Sweden                 2022 - Current
**Remote (Employment) Senior Fullstack Developer**

- Upgrading Ruby on Rails from 4.1 to 6.1
- Performance improvements across the entire stack.
- ERP system integrations with Fortnox, Pyramid Pro Client.
- Integrated with Klarna Settlements.
- Reduced memory usage with 60+ percent by switching to Jemalloc.
- Parallelization of background jobs.
- Implemented monitoring and APM using AppSignal.
- Reduced page load times by setting up cloudfront distributions for both rails assets and Amazon S3.

**Nalantis**, Belgium, Antwerp                 2021 - Current
**Remote (Contract) Senior Fullstack Developer**

*KBC is a Belgian bank the project was a talent requisition and retention platform.*

- Greenfield rails 7.0 project using all the new rails technologies
- Implemented design using TailwindCSS 3.0, Stimulus JS and Ruby on Rails 7.0 and the latest hotwire and turbo-rails for partial page updates.
- Built all the initial frontend using aforementioned technologies and created a UX framework onto of TailwindCSS 3.0

**Pitchfish Inc**, Richardson, TX, USA                 2021 - Current
**Remote (Founder) Senior Fullstack Developer**

*Pitchfish allows sellers to reduce their customer acquisition cost and buyers to evaluate quality products and services while getting paid for their time.*

- Greenfield rails 7.0 project using all the new rails technologies
- Implemented design using TailwindCSS 3.0, Stimulus JS and Ruby on Rails 7.0 and the latest hotwire and turbo-rails for partial page updates.

- Built all the initial frontend using aforementioned technologies and created a UX framework onto of TailwindCSS 3.0
- Inbound and outgoing emails implementation using Postmark
- Payment integration with Stripe Connect for buyers to reimburse them for their time
- Payment integration with Stripe Checkout Express to allow sellers to put the money down for a pitch.
- PostgreSQL for database
- Redis and Sidekiq for background job processing

**mhenrixon Consulting**, Blankenburg (Harz), Germany                    2018 - Current
**Remote (Founder) Senior Backend Developer**

*mhenrixon Consulting provides consulting services as Subject Matter Expert specializing in system development*

- See all the various remote freelancing roles during this time period

**Joint Academy**, Malmö, Sweden                    2020 - 2021
**Remote (Contract) Senior Backend Developer**

*Join Academy is a healthcare company with a focus on science and technology. The digital osteoarthritis treatment Joint Academy combines physical activity, education, and healthcare professionals that are always on hand. With this kind of digital treatment method, healthcare becomes both more scalable and more efficient. Their stack was a Rails 4.2 monolith with mobile apps (iOS and Android) and a web app for therapists and doctors. Also uses PostgreSQL, Postgraphile and Redis with Sidekiq to process background jobs.*

- Upgraded the monolith to Rails 6.1.
- Implemented backend for video calls, scheduled calls and call center functionality for the US market using Twilio.
- Implemented custom state machines for video calls
- Upgraded ruby from 2.6.1 to 2.7.2
- Upgraded all the hundreds of other dependencies (ruby gems) in the monolith
- Reduced production docker image size from 1,6 GB to 395 MB
- Dockerized development environment, sprinkling that little Makefile magic on top of docker.
- Improved test suite performance (inside docker) from 80+ minutes to ~12 minutes
- Designed and built out an event-driven micro service architecture template with RabbitMQ for messages.

**Wundertax Gmbh**, Berlin, Germany                    2020 - 2020
**Remote (Contract) Fullstack Developer**

*Wundertax makes the complex German tax system easily accessible to everyone. They have a micro service architecture running Docker containers on Kubernetes. Their primary code is written in Ruby (using Ruby on Rails and React) but also some Go and Python. GitlabCI for continuous integration and delivery.*

- Instrumental in migrating all ruby services from Gitlab, CircleCI and DEIS to GitlabCI and Kubor/ Kubernetes.
- Implemented various new rules for the tax year 2019
- Streamlined the development environment for all services using Docker with a little Makefile magic to create some external dependencies
- Extracted core business logic from ruby gems and monolith into several new rails services
- Improved testing reliability and code coverage
- Upgraded all services to Rails 6.1 and Ruby 2.7.2

**solarisBank AG**, Berlin, Germany                    2018 - 2019
**Remote (Contract) Senior Backend Developer**

*solarisBank is a Berlin-based fintech company that offers Banking as a Platform services with its German banking license. Their primary code is written in Go, Ruby (using Grape API) and Elixir. They run Docker containers using Consul. Concourse CI for continuous integration and delivery.*

- Extracted person identifications from monolith into new service
- Migrated to new person identifications service with close to zero downtime
- Developed core functionality on PSD2 initiative (open banking)
- Developed partner invoicing for person identifications
- Developed customised signing endpoint

**ProSiebenSat.1**, Munich, Germany                    2018 - 2018
**Remote (Contract) Senior Backend Developer**

*ProSiebenSat.1 is a cable TV network operator in Germany.*

- Stabilisation of all systems
- Developing structured logging
- Setting up continuous integration
- Setting up continuous delivery
- Standardisation of processes
- Rolled out a mongodb cluster
- Developed an automated mongodb backup system

**solarisBank AG**, Berlin, Germany                                               2017 - 2018
**Remote (Contract) Senior Backend Developer**

*solarisBank is a Berlin-based fintech company that offers Banking as a Platform services with its German banking license. Their primary code is written in Go, Ruby (using Grape API) and Elixir. They run Docker containers using Consul. Concourse CI for continuous integration and delivery.*

- Part of building a fully autonomous agile team.
- Contributed greatly in overall improvements of everything from how docker is used to improving build times, test times, reliability of tests to how the team worked together.
- Developed a service to handle data change requests (part of the core banking offering).
- Developed a feature flags solution.
- Developed an IBAN lookup and validation service.
- Developed a service for screening people for PEP hits.
- Developed functionality for statement of accounts.
- Developed functionality for bank statements.
- Developed functionality for standing orders.
- Developed functionality for dealing with account limits.

**Zoolutions AB,**, Landsbro, Sweden                                               2007 - 2018
**Remote (Founder) Senior Backend Developer**

*Zoolutions AB provided consulting services as Subject Matter Expert specializing in system development*

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**Reevoo Ltd**, London, England                                               2016 - 2017
**Remote (Contract) Senior Backend Developer**

*Reevoo helps companies create better products by providing honest and reliable reviews of said products. Their primary code is written in Ruby (using Ruby on Rails) with a more traditional web application approach.*

- Performance and scalability improvements to the systems that handle grouping of product reviews
- Designed and implemented a logging, monitoring and alerting system for standardized logging (See https://github.com/reevoo/sapience-rb for more info)

**Kisko Labs**, Helsinki, Finland                                               2014 - 2017
**Remote (Contract) Fullstack Developer**

*Kisko Labs is a software company whose mission is to help businesses build in a digital world. We are your trusted advisor whether you need software development, service design, UX or UI design. Kisko Labs bought and migrated our WODstack product with all customers over to their WODconnect application.*

- Implemented recurring card payments for PRO Accounts with Stripe
- Ongoing performance optimizations
- Upgraded Ruby on Rails from 3.2 to 4.2
- Implemented Gym membership billing with Stripe

**Cubits**, Berlin, Germany                                               2016 - 2016
**Onsite  (Employment) Senior Backend Developer**

*Cubits is an all-inclusive platform to buy, sell and accept Bitcoin. Their easy-to-use interface allows users to buy and sell Bitcoin instantly with 17 supported currencies. The Cubits Wallet offers secure Bitcoin storage and easy Bitcoin transfers and*

*payments. They work in tandem with Credit Card providers, Onlinebanktransfer.com, Sofort, OK Pay, Dotpay, SEPA and Swift to offer our customers a fast and easy buy and sell process. Cubits' flexible API allows merchants to accept Bitcoin immediately, offering various shopping cart plugins including Shopify, WordPress, Magento, Shopware or osCommerce.*

• Integrations with third party payment systems.

**Crealytics GmbH**, Berlin, Germany                                                           2015 - 2016
**Onsite  (Employment) Senior Backend Developer**

*Crealytics helps companies lower their google ad campaign spendings by automatically optimizing numerous variables. Their primary code is written in Ruby (using Grape API) running Jenkins CI for continuous integration and delivery.*

• Improved Continuous Delivery by creating a true pipeline using Jenkins and Jenkins Workflow
• Designed and implemented a Message Bus using Kafka on Apache Mesos
• Improved the local workflow with docker-compose
• Implemented NewRelic monitoring for all microservices recording cross application transactions
• Designed a reverse proxy/api gateway using Kong
• Designed the backend implementation of an activity feed

**Hero Gaming AB**, Malmö, Sweden                                                           2013 - 2015
**Remote (Contract) Senior Backend Developer**

*Hero Gaming creates multi-branded gamified online Casinos. Their primary original product Casino Saga (now Casino Heroes) was almost entirely developed by me. Their stack is a modular Ruby on Rails app with different rails engines for different game and transaction providers. Uses PostgreSQL database for storage and is hosted on their own hardware. Continuous delivery was developed using Chef and vmWare back in 2013 due to Docker not really being a thing yet.*

• Designed and implemented payment transactional system; a scalable design created with the intent that newer and less experienced developers could access and change without effecting performance or extendability
• Automated server provisioning using chef
• Developed full test coverage for server configuration for both unit and integration tests
• Optimized CasinoSaga API to serve up to 2500 requests per minute on a single physical host
• Optimized the seamless wallet servers to respond in average 100-200ms per money transaction
• Developed API integrations from AngularJS to said API
• Developed integrations with gaming providers in AngularJS

**Form26 Ltd**, Richardson, TX, USA                                                           2011 - 2014
**Remote (Founder) Fullstack Developer**

*Form26 was a software development company hell bent on solving the software needs of the founders.*

• Created http://taskk.it using Ruby on Rails, PostgreSQL a program that automatically fills allotted "time to spend on tasks" based on custom algorithms (patent pending)
• Created http://wodstack.com using Ruby on Rails, PostgreSQL and and Elastic Search. WODstack was later sold to a Finnish company (Kisko Labs) and all customers migrated to WODconnect http:// www.wodconnect.com

**HL Design & Media AB**, Växjö, Sweden                                                           2012 - 2013
**Remote (Employment) Senior Fullstack Developer**

• Developed a highly scalable localization backend for the flagship WM3
• Optimized server processing times approximately 75% for WM3
• Developed a widget based intranet using AngularJS

**Arne Johanssons Fastighetsservice AB**, Lammhult, Sweden                                   2007 - 2013
**Remote (Contract) Fullstack Developer**

• Designed and developed an invoice management system using .NET 2, NHibernate and SQL Reporting Services for BI and invoice generation, installed on customer's private machine running in UltiDev Cassini Web Server

**Evry One**, Växjö, Sweden                                                           2011 - 2012

**Remote (Employment) Senior Software Developer**

- System developer on Jeeves
- Developed a mobile web application for internet explorer mobile / windows ce 5
- Onsite SQL performance optimizations for customer located in central Manhattan, New York

**Play'n GO**, Växjö, Sweden                                                                      2010 - 2011
**Remote (Employment) Senior Software Developer**

- Developed a Ruby-on-Rails e-commerce system for Opticians reseller with focus on ease of use for placing orders
- Designed and developed a security system for a Windows Form app with corresponding WCF service
- Integrated payment solutions and game providers into existing backend system to provide PNG's customers required payment options
- Upgraded existing web application to .NET 4, NHibernate 3, and MVC 3
- Developed an integration with ATG into existing backend systems
- Set up continuous integration environment with possibility of 1-click deployments and upgraded to .NET 4.0
- Developed payment and shipping modules for a PHP e-commerce application
- Managed various required upgrades and major maintenance tasks for proper scalability
- Designed SMS billing application to build away errors from current system
- Created a 3-tier subscription based app for mobile applications and web applications

**Numo Solutions AS**, Oslo, Norway                                                          2008 - 2010
**Onsite (Employment) Senior Software Developer**

- Substitute CTO / Tech Lead (February – May 2009) of a company rebranding project
- Designed and developed billing system, a CMS for mobile web, and upgraded core projects from .NET1,0 to .NET 3.5, and a highly scalable enterprise contact backup system
- Migrating/upgrading the production database from MS SQL Server 2005 to MS SQL 2008 to make use of CDC to push data to a separate reporting environment

**C. Gunnarssons Verkstads AB**, Vislanda, Sweden                                 2007 - 2008
**Remote (Employment) Software Developer**

- System design and development when upgrading one of CGV's old customers from using a VB6 application to control their saw mill to use a new .NET app with thin clients running a remote app on a Windows 2008 Server instance

**Wadley Enterprises**, Brisbane, Australia                                                 2005 - 2007
**Onsite (Employment) Fullstack Developer**

- Design and developed an online based purchase order system
- Designed and developed a try & buy webshop for the system
- Automated deployment for the customer at sign up
- Creation of website, database, and an initial company/department and admin user