

MIKAEL HENRIKSSON

SENIOR SOFTWARE DEVELOPER AND DESIGNER

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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

Dash <https://github.com/zoolutions/kamal>

Ruby, Kamal

A better version of Kamal with support for SAN certificate handling, load balancing, rate limiting, caching

Glyphs <https://github.com/zoolutions/glyphs>

Ruby, Ruby on Rails, Phlex

EXPERIENCE

Zazu SA (Pty) Ltd., Cape Town, South Africa Remote (Contract) Senior Fullstack Developer

2024 - Current

- Server provisioning automation with terraform
- Kamal deployments with 1password
- Developed a loadbalancer deployment for kamal
- Developed an OAuth-like permissions system
- Architected the frontend
- Mentoring and guidance

Enode AB, Växjö, Sweden Remote (Contract) Senior Fullstack Developer

2024 - 2025

- Upgraded Ruby on Rails from 6.1 to 8.0
- Upgraded Ruby from 3.1 to 3.4
- Swapped Capistrano for Kamal
- Set up new infrastructure more suited for Kamal deployments

Enode AB, Växjö, Sweden Remote (Contract) Senior Fullstack Developer

2024 - 2024

- I upgraded one very old Ruby on Rails project to the newest and shiniest.
- Ruby on Rails from 3.2 to 8.0
- Ruby from 2.2 to 3.4
- Swapped MongoDB 2.6 for PostgreSQL 17.3
- Upgraded bootstrap from 3.x to 5.x
- I replaced most of the jQuery code with Hotwire, StimulusJS, and Turbo.

Enode AB, Växjö, Sweden Remote (Contract) Senior Fullstack Developer

2022 - 2024

- 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.

Pitchfish Inc, Richardson, TX, USA
Remote (Founder) Senior Fullstack Developer

2021 - 2023

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
Remote (Founder) Senior Backend Developer

2018 - 2023

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

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

Nalantis, Belgium, Antwerp
Remote (Contract) Senior Fullstack Developer

2021 - 2022

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

Joint Academy, Malmö, Sweden
Remote (Contract) Senior Backend Developer

2020 - 2021

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
Remote (Contract) Fullstack Developer

2020 - 2020

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
Remote (Contract) Senior Backend Developer

2018 - 2019

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
Remote (Contract) Senior Backend Developer

2018 - 2018

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
Remote (Contract) Senior Backend Developer

2017 - 2018

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
Remote (Founder) Senior Backend Developer

2007 - 2018

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

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

Reevoo Ltd, London, England
Remote (Contract) Senior Backend Developer

2016 - 2017

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
Remote (Contract) Fullstack Developer

2014 - 2017

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
Onsite (Employment) Senior Backend Developer

2016 - 2016

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
Onsite (Employment) Senior Backend Developer

2015 - 2016

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](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
Remote (Employment) Software Developer

2007 - 2008

- 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
Onsite (Employment) Fullstack Developer

2005 - 2007

- 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