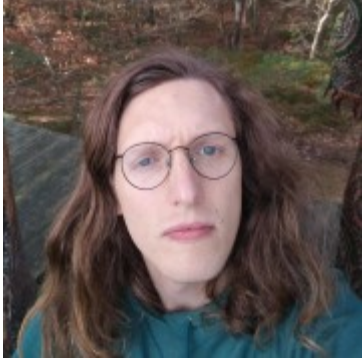# CHRISTOPHER FREDÉN

1986-07-09

Kobergsgatan 27
416 71 Göteborg, Sweden

c.freden@gmail.com
+46 (0)708 34 68 19

EXPERIENCE

System Developer

Seal Software *at 2015 — present*

On premise and cloud product for judicial contract discovery and analytics.

Seal uses Natural Language Parsing and Machine Learning to identify customer files as judicial documents, annotating them and making them available for search and analysis.

The processing pipeline is mostly written in Java with the exception for some Scala components. The GUI is web based and written in Angular and more recent components in React and Redux using TypeScript.

Notable customers include Google, PayPal, Dell and Salesforce.

Early on I took initiative in making the integration API more concise and improving documentation for customers. This also included support policies for API versioning and client/backend code generation from an API spec. format.

I have also pushed for deterministic software builds to improve DevOps, QA and overall developer experience using Nix, NixOps and Hydra.

System Developer / Web Developer

Kartena AB, Göteborg *at 2005 — 2015*

Kartena does mostly consulting for Geographical Information System needs, such as maps, real time positioning and route optimization.

We developed our own platform for serving maps on the web. I created our first pure JavaScript/HTML based map client.

Since then I have been involved in many different projects most of which are web based. We mostly develop in .NET but not for all projects. Some of the more recent projects I have started have been Node.js based.

Utilizing the open-source community we also get some time to give back. One project I worked on was to add custom projections to Leaflet (an open-source map client) using Proj4 that is called Proj4Leaflet (https://github.com/kartena/proj4leaflet). I also created a static map generator, printlet (https://github.com/kartena/printlet) built with Node.js.

Notable projects at Kartena

"Ledningskollen" for *Swedish Post and Telecom Agency*

A large system delivered to the Swedish government for aiding companies and the government itself to keep track of underground infrastructure and minimizing the risk of damage by e.g. excavations.

This application has many parts, but it is essentially an issue tracking system where people who need to excavate create tickets through a public web site. The tickets will then be sent to companies whose cables run the risk of being damaged by said excavation.

My main achievements:

- Designed and led the implementation of a web based mobile client for creating excavation issues in the field.
- Programmed most of the web based geographical drawing tools for excavation marking.
- I also led the redesign work for the second iteration of the public API.

"Tourmanager" for *Nestle*

An application for planning and real-time monitoring of ice cream vans for
Nestle subsidiaries in Sweden, Norway, Denmark and Finland.

Server side built with C# .Net, MS SQL, nHibernate. The user interface is a
rich web browser client written in JavaScript.

Tours are planed graphically using an interactive map, vans can then be
scheduled to execute a tour. When a tour has started the administrators can
follow a van in real-time.

The real-time recording of the vans position was supplied by another company.
The positions are received through their gateway service.

Later a public web site was added where people could sign up for real-time
updates of where they could buy ice cream from a nearby van.

I designed the administrative GUI and implemented most of the web client.

System Developer

Heliospectra AB, Göteborg *at November 2010 — January 2011*

Heliospectra provides a "smart", energy efficient, autonomous light engine for
greenhouses. I was hired to write the software for their prototype lamp.

The prototype lamp controller was an embeddable ARM-processor which ran
Debian Linux. I wrote a scheduler and a simple socket command interface for it
in Python. I also configured the Debian installation and created a way to easily
flash the entire setup to a unit.

This job was parallel to my employment at Kartena.

System Developer

Stadsbyggnadskontoret (City Planning Department), Göteborg *at 2005*

Designed and developed a web based project management system for the landscaping department. The project was built with a PHP, Apache HTTP and MySQL setup and run on a FreeBSD server.

Volunteer

Tara Buddhist Meditation Centre, Derby England *at June 2005 — August 2005*

Helped renovate a turn of the century building, mostly doing brickwork on the chimneys but also some gardening and carpentry work.

Intern

Freddans Musik AB, Göteborg *at 2001 — 2002*

Musikbörsen, Göteborg *at 2000*

EDUCATION

Functional Programming Principles in Scala

École Polytechnique Fédérale de Lausanne (University), Online (Coursera) *spring 2014*

Information technology, electronics and science

IT-Gymnasiet (Upper Secondary Technical School), V. Frölunda *at Aug 2002 — Jun 2005*

Scholarship for Excellent programming skills and excellent completion of final project (construction of a hi-fi stereo amplifier).

PROJECTS

Mavenix (https://github.com/icetan/mavenix) generates Nix expressions to deterministically build Maven projects.

Dr. Markdown (http://icetan.github.io/dr-markdown/) a web based markdown editor.

tinci (http://icetan.github.io/tinci/) stands for TINy Continuous Integration for Git repos.

mesc (https://github.com/icetan/mesc) minimal event sourcing framework for Node.js.

More (http://icetan.github.io) projects and social links.