

CHRISTOPHER FREDÉN



1986-07-09

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EXPERIENCE

System Developer / Web Developer

Kartena AB, Göteborg *at October 2005 – present*

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 for adding custom projections with Proj4 to Leaflet a open-source map client [Proj4Leaflet](https://github.com/kartena/proj4leaflet) (<https://github.com/kartena/proj4leaflet>). More recently I created a static map generator, [printlet](https://github.com/kartena/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 under ground 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 who's cables run the risk of being damaged by said excavation.

My main achievements:

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

Technologies Used: JavaScript, HTML5, CSS3, C#, Web API, MS SQL, nHibernate, Leaflet.js, Bootstrap.

"Tourmanager" for Nestle

An application for planing 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.

Technologies Used: JavaScript OOP, HTML5, CSS3, C#, MS SQL, nHibernate.

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 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*

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).

TECHNOLOGIES

JavaScript	Node.js	CoffeeScript	Python
C#	Java	Scala	C/C++
MongoDB	PostgreSQL	MySQL	SQLite
Backbone.js	Express.js	Leaflet	Grunt.js
HTML 5	CSS 3	jQuery	Bootstrap
Vim	VimScript	Git	Mercurial
Gimp	Inkscape	OS X	Linux

PROJECTS

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

Vixen (<http://icetan.github.io/vixen/>) a DOM/string-templating hybrid for model driven HTML views.

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

blox (<https://github.com/icetan/blox>) a simple terminal based multi player tetris clone.

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