



Emil Bengtsson

Curriculum Vitae

Who I am

My name is Emil and I am very fond of solving problems. Give me a problem, a little bit of time and I will find a solution.

Experience

- 2014–Present **Chief Technical Officer**, STARTSHOP, Oslo, Norway.
Responsible for all technical development and choice of technology for StartShop.no, a Norwegian e-commerce platform. Large focus on integration with other platforms, scalability and technical flexibility.
- 2013–Present **Senior Consultant**, INONIT, Oslo, Norway.
Senior consultant within web development and problem solving. Temporary work done on a project to project basis.
- 2012–2013 **GUI developer**, NORMAN, Lysaker, Norway.
GUI and web development. Performed research into possible technologies. Development for large product line and did initial studies for their cloud initiative.
- 2007–2012 **Web developer**, 24HR, Malmö, Sweden.
Development of web sites small and large. Involved in numerous roles including front-end, back-end, databases, lighter server administration and internal development.
- 2006–2007 **System developer**, ROCK BLUE MOUNTAIN, Ao Nang, Thailand.
Planned, analysed, implemented and launched a web-based system for internal bookings for a local tour operator.

Projects

- 2015 **Information System**, SARA, Harare, Zimbabwe, *Consultancy project*.
Implemented a critical information system for SARA (Southern African Railways Association), handling the information about all international cargo shipping between different countries/railway companies.

The goal of the project was to share crucial commercial information between railway companies in a secure and transparent way.

Tech: Clojure, PostgreSQL

2013–2014 **TestMerchant**, NETS NORWAY AS, Oslo, Norway, *Consultancy project*.

Implemented a test tool of critical importance for the new javascript based BankID 2.0 client.

Consulted stakeholders and domain experts on requirements during the initial stages of the project and provided feedback during the entire development process. The project was based on a legacy implementation. The existing implementation was heavily refactored to support multiple platforms such as iOS/Android apps, the Java client and the new javascript client. Introduced a flexible configuration management interface for manipulating the test tool at all stages during a test phase.

The merchant was designed with a separation of concerns in mind. The interface for configuring the merchant was broken off into its own separate piece, allowing for easy use for both manual testers through the manual GUI and automated tests through the REST API.

The goal of the project was to produce a merchant that implemented full functionality, while allowing the testers to simulate scenarios for the merchant that can occur in a production environment.

Tech: Java, Python & javascript

2012–Present **reverie/CMS**, SELF.

Implementing my own Content Management System for websites in my spare time. This project aims to fix the shortcomings with the current offerings of web CMS'es; and so reverie is heavily focused on flexibility for both the web developer and the web master while also placing emphasis on extendability and performance. Currently implemented is a flexible layout engine, a powerful object system, a large number of tools to help the web developer with his work, a caching system and an authorization system. A/B testing, meta capabilities, strong integration with social media are some of the future updates planned.

Tech: Clojure, javascript, HTML/CSS & PostgreSQL

2013 **Norman Cloud**, NORMAN, Lysaker, Norway.

Researched viable paths for a new Cloud platform, tying in with existing products. Developed an API specification and javascript libraries, held responsibility for the HTTP server and web security. Researched UX viability and multiple javascript libraries.

Tech: Python, javascript

2012–2013 **NPRO**, NORMAN, Lysaker, Norway.

Took responsibility over the GUI for a delayed release of NPRO, one of Norman's most important offerings of Antivirus software. Fixed numerous bugs in a complex tech stack of C++, embedded Lua with a custom web server, custom javascript libraries, a custom database; all connected through multiple layers of installations with messages sent back and forth.

Tech: C++, Lua, Javascript, CSS, Debugging

2011–2012 **Columbus**, ROCK BLUE MOUNTAIN, Svedala, Sweden, *Consultancy project*.

Wrote a new internal booking system for Rock Blue Mountain. Analyzed what their new needs were, redesigned the database, transformed and transferred all data from the old database to the new, added PDF generation & new business rules. Did everything in back-end and front-end, including all design. Continuously held a dialog with the customer for the duration of the project.

The goal of the project was to modernize the old system and add new customer facing functionality.

Tech: Python, PostgreSQL, Celery, HTML/CSS, javascript, UX

2011–2012 **Internal work flows & automation**, 24HR, Malmö, Sweden.

Switched from SVN to Mercurial. Built infrastructure for accommodating new work flows including, among other things, master copies that customers could work with during development.

Tech: Python

2010 **Recipe search**, 24HR, Malmö, Sweden.

Wrote an SQL query engine for a recipe database that used normal pages in the CMS as the data storage. A search took over 30 seconds to complete with the old way. A search with the new engine queried the database directly and gave back a list of hits, then rendered the page and presented the results; all in less than a second.

Tech: MSSQL, C#

2009 & 2012 **Dynamic form builder**, 24HR, Malmö, Sweden.

Dynamically created forms with form-choices affecting other form-choices, all orders through the form saved and frozen in time, generation of pdf:s, administration of the forms, etc. Later ported from OOiS-Script to PHP with all other parts intact.

Tech: Python, PHP, javascript, OOiS, SQL

Education

2005–2006 **Advanced Database Management**, *EC Utbildning*, Helsingborg, Sweden.

2001–2004 **Game programming**, *PowerHouse*, Kramfors, Sweden.

1996–1999 **Gymnasium Naturvetenskapliga Programmet**, *Österängs Gymnasium*, Kristianstad, Sweden.

Software skills

Languages Python, Clojure, javascript, PHP, C++, C#, Java, Lua, SQL

Standards HTML, CSS, XML, JSON, HTTP, EDN

Concepts 3D/2D, OOP, functional programming, regex

Databases MySQL, MSSQL, PostgreSQL, Datomic

Tools L^AT_EX, SVN, hg, git, emacs, vim, apache, nginx, Django, reverie

Misc. Windows, Linux

Language proficiency

Swedish	Native speaker
English	Bilingual
Norwegian	Limited working proficiency
German	Elementary

References

Upon request