

Consultant profile

Göran Krampe

- Born 1969, Computer Science, KTH 1991-94
- Worked with programming since 1988
- Consultant since 1994
- Freelance consultant since 2010



Main area	Focused on object oriented software development using dynamic languages, but I am nowadays a polyglot with a very broad palette
Specialties	Open source, Linux, Smalltalk, Nim, OOP, 3D graphics, C#, Java, NoSQL databases, object databases, DevOps, network protocols ...
Roles	Software developer, Lead developer, Achitect, Mentor, Teacher, Technical project leader, investigator, Full responsibility and more

Description

I grew up in Åkersberga north of Stockholm. After my computer science studies at KTH I started my career 1994 as a software developer consultant at Enator Functional Systems, at the time the leading firm in object oriented development. Since year 2000 I live in a house close to the sea together with my wife, two daughters, two cats, garden and a boat.

I have been programming since I was 12 and I have a broad spectrum of knowledge in everything from 3D graphics & VR, devops, cloud deployments, network programming, web servers and frameworks, web applications, graphical user interfaces, optimization algorithms, dynamic languages, advanced domain models, HTML5 applications and much more.

During the years 1999-2005 I founded a small consulting firm together with some class mates from KTH. I was also a group manager 2008-2010 in parallel with doing consulting work.

In my roles as a consultant I have participated in both large and small projects and in the roles of architect, lead developer, investigator, technical project leader and often having complete responsibility for the project. Through the years I have come to appreciate pragmatic solutions and good simple design instead of overengineered complexity, which a large part of our industry still pursues. I easily learn new technology and my motto is "the right tool for the job".

My focus has since 1994 been in cross platform object oriented development, mainly in Smalltalk, Nim, C#, Javascript and Java but also occasionally using Ruby, Perl and Python. Since 2010 I am a freelance consultant and the last three years I have worked 100% at 3D ICC where I was the architect and lead developer for their Virtual Reality system.

Development tools, languages and different kinds of databases are areas I track carefully. I am active in several open source projects. I have published several different projects as open source, my last one being my own homoiconic programming language called Ni.

I have been hired several times as a speaker both in swedish and english in various subjects in software development. I am usually appreciated for my passionate interest in programming techniques together with my open and forward personality.

Personal traits

- Cares for details but results-oriented
- Rich with initiatives and creative
- Easy to be with and an open personality
- Pedagogical and engaging

Education and Skills

Education	Computer Science from KTH. 20 points russian from military.
Domains	Immersive 3D virtual reality, accounting, TV broadcasting, Finance, electrical power industry, newspaper production, IT-product development, government and more
Methods	Have worked with a range of development methods as XP or Scrum but also EFSOS and RUP, sometimes using TDD/BDD or similar.
OS	Linux (Debian, CentOS, Ubuntu, Redhat etc), Windows, OSX, Unix/SunOS/Solaris
Programming languages	Smalltalk (most implementations), Nim, Javascript, C#, C/C++, Java, Ruby, Perl, Python, bash, XHTML/XML/CSS, SQL and more
Development tools	Eclipse, VisualStudio, Squeak/Pharo, VisualAge for Java, VisualWorks, VAST, Komodo, Chrome debugger, Firebug, make, CMake, JUnit/SUnit, Ant, Nginx, Apache/HAProxy, Lighttpd. CouchDB, Riak, PostgreSQL, MySQL, GemStone/S/J, Oracle, Poet, MS SQL Server, Magma, git, Subversion, CVS, Mercurial, Darcs, Monticello and an endless list of more...
Documentation	Good documentative ability. Have produced requirement specifications, prestudys, investigation reports, user manuals, system documentation, architecture descriptions and other kinds of reports and a slew of presentations.

Assignments

3D ICC

2012-2015

Lead Architect in a range of technical projects

3DICC develops a Virtual Reality system for large and medium sized organisations. The system can be deployed both in the cloud and on premise. As the lead architect I participated in all parts of development, including DevOps which I introduced as I also instrumented our move to virtual servers in the cloud.

I architected and developed

- The cloud platform with provisioning via Chef
- A system for cloud monitoring and gathering of metrics using Sensu, Graphite and Grafana
- A virtual appliance constructed using Chef, Vagrant and VirtualBox
- A revamped new client with the integration of a new 3D engine, Urho3D

I was also responsible for our development environment where we used Gitlab, Redmine, AsciiDoc and various build scripts. I also worked daily with maintaining our software artifacts.

Tools

Smalltalk, Nim, C++, Urho3D, Chef, Graphite, Grafana, Sensu, AWS EC2, Gitlab, Vagrant, Packer, AsciiDoc, Saltstack, Windows, OSX, Linux, Opsgenie, Redmine

Företagsplatsen

2011-2012

Development of a calculation engine for accounting metrics

Företagsplatsen visualizes accounting data and in it's new version a large number of economical metrics are calculated according to different formulas. The key to this is a new calculation engine in the shape of an internal DSL in C# to express the formulas. This in turn constructs an object model that can be "executed" in order to produce the metric and can also be used to visualize the formula and it's parts enabling "drill down" etc

Tools

Windows, Visual Studio, C#

Företagsplatsen

2011-2012

Development of a special kind of cylindric graph in Highcharts

The task was to add a new kind of custom graph to the Highcharts graphing library in javascript. The graph is a "cake" in 3D where different parts represents selected metrics from accounting. The graph was implemented in SVG using fallback to VML for older Internet Explorer version prior to IE9.

Tools

Javascript/HTML5, Linux, Windows, Visual Studio, Chrome, SVN, Highcharts, git

Företagsplatsen

2011-2012

Evolving a pure HTML5 client

Development of the visualization service that Företagsplatsen offers its customers mainly focused on the new pure HTML5 client with dynamic HTML generation using HTMLCanvas (github) and jQuery.

Tools

Linux, Windows, Visual Studio, Chrome, CouchDB, SVN, Javascript/HTML5 (requirejs, sugarjs, jQuery etc), Highcharts, C#, git

Stockholm City Library

2011

Migration and development of a public database

"Öppna Bibliotek" (Open Libraries) is an information portal for sharing book reviews and other information between libraries in Sweden. The system was originally built in Ruby on Rails 2 and MySQL. The task was to mainly migrate the system to Rails 3, Passenger and to upgrade all included gems/plugins and in the process correct a number of bugs.

Tools

Linux, Ruby, Apache, Passenger, MySQL, SVN, github

Vizrt

2011

Maintenance of a TV production system

Göran joined the team for backend development of Vizrt's Media Asset Management system written in Perl. The task was mainly to correct bugs in the system.

Linux, Perl, Komodo IDE, Subversion, Trac

Teleplace

2010 - 2011

Implement RDP in a distributed 3D VR system

Teleplace (currently 3DICC) has a very advanced virtual reality environment for teleconferencing and collaboration in realtime. The system uses OpenGL and a distributed peer-to-peer protocol in order to create an interactive malleable realtime 3D environment where the participants can do real work together.

Göran implemented and integrated the MS Remote Desktop Protocol in order to be able to run Windows applications virtually projected onto walls inside the Virtual Reality environment so that they can be used and controlled by multiple users concurrently.

Tools

Linux, Windows, Smalltalk, RDP, Monticello, Subversion

GTUG

2011

Presentation

Presented on Smalltalk and Seaside on GTUG meetup.

Certified Lead Developer, Dfkompetens

2011

Lectures

Held a range of lectures in the course *Certified Lead Developer* around the subjects:

- What is a Lead Developer?
- Object oriented programming
- Project work as a Lead Developer
- Source code version control

- Vizrt**
2010
Maintenance of a TV production system
Göran joined the team for backend development of Vizrt's Media Asset Management system written in Perl. The tasks were mainly doing customer specific extensions and bug fixing in the system and its accompanying tools, but also helping to improve the development environment for more efficient bug fixing.
- Tools**
Linux, Perl, Komodo IDE, C++, gdb, Subversion, Trac
- Enköping municipality**
2010
Develop a prototype system for electronic forms
Göran has together with the municipality of Enköpings built a prototype and a standard for electronic forms to be used by all municipalities in Sweden. The standard is built to be very simple to use and is based on JSON. The web frontend uses JQuery, Seaside and CouchDB in order to create interactive "wizards" using very little code. Göran was project leader and lead developer.
- Tools**
JSON, CouchDB, Squeak, Seaside
- Företagsplatsen**
2009
Introducing CouchDB in a web system written in C#
Prestudy and migration from MS SQL-server to CouchDB in a web system written in C#, VisualStudio 2008 and Microsoft's MVC framework. As a part of this work Göran also developed "Divan" - a library in C# to work with CouchDB. This library was subsequently released as open source and was during a period the leading library of its kind. Göran had the role as architect and developer.
- Tools**
C#/.Net 3.5, VisualStudio 2008, Mono/MonoDevelop, CouchDB, Linux, Windows
- Företagsplatsen**
2009
Constructing a new parser for the SIE standard in C#
Development of a new "recursive descent" parser in C# to parse and load SIE files (swedish standard for accounting information). The parser is very fast and has detailed and forgiving error handling in order to handle deviations from the published standard. Is probably the most advanced SIE parser since Företagsplatsen needs to be able to load files originating from all accounting systems in use on the swedish market. Göran had the roles as architect and developer.
- Tools**
C#/.Net3.5, VisualStudio S2008, Windows

NOTE: For my 24 assignments before 2009, see my swedish profile.