

# CV Richard K. Szabó



PROGRAMMER · SYSTEMS ADMINISTRATOR · HARDWARE (IPC-TECHNICIAN) · GRAPHIC DESIGNER · PHOTOGRAPHER

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## BACK-END & FRONT-END DEVELOPER WITH AESTHETIC SKILLS

My choice of programming language and storage solution depend solely on the application/task at hand.

### Back-end development/embedded systems

Since my first computer at the age of seven I have always been interested in the inner workings of computer systems, which lead me into software development at a young age.

C, C++, Shell scripting, PHP, Perl and NodeJS. (*Outdated languages omitted*)

Linux and Windows servers, hardware and software, certified IPC-technician.

### Front-end/web development

When Internet in households were still pretty new, and when phones could only dream of being wireless, I got into network programming and web development, and was fascinated that I could use my aesthetic skills on a completely different platform, and for many more purposes.

HTML, CSS, JavaScript (incl. jQuery, mootools, Bootstrap, *et al*).

### Storage solutions

Whether its for portability, low-latency search or document indexing I have many years of experience with databases, document storage and flat-file configuration files.

MySQL, SQLite3, Redis, APC, git and Xcache.

### Operating systems

I have many years of experience with GNU/Linux (primarily Debian), Microsoft Windows (3.1 through 8.1), and Apple OS X (as favored client OS).

### System security and maintenance

For every server and embedded machine I am responsible for, strict security is applied. I have several years of experience with Linux servers handling sensitive data such as private documents and customer data; using tools such as **openvpn**, **iptables**, **portsentry** and **fail2ban**.

Measures applied, apart from a tight firewall, are port-scan detection software, Virtual Private Network-only access, tmpfs, dm-crypt, enforced passwords (passphrases) and teaching secure practices to clients and staff whom have access to the machines in question.

### Graphic design, UX and photography

I began drawing at a young age and have now several years of experience with leading graphic suites for Windows and Linux, such as Adobe Photoshop and Imagemagick, and for years I've been fascinated by photography, something that is usually incorporated into my work.

My graphics skills comes in handy when designing user and application interfaces, or when assigned the task of improving the overall user experience. This, along with my development skills, makes me perfect for front-end development.

## THE PAST AND THE PRESENT (PRIMARYLY TEAM-BASED BUT SOME SOLO.)

**SPECIMEN SOCIAL PLATFORM WITH SECURITY AND PRIVACY IN MIND** Besides being the chairman, I do CTO-related tasks and develop a communications platform which uses real-time encryption from client to server for isolated sessions and secure chatting/ mailing. Uses Redis/MySQL as database backend, encrypts existing HTTPS WebSocket-communication and provides OTR natively.

**TEXTALK WEBSHOP CORE DEVELOPER / CONSULTANT** Back- and front-end developer on a webshop platform serving roughly 4,000 customers. Everyday work includes developing in PHP, JavaScript, HTML/CSS, and maintaining MySQL databases.

**INSTASCII AN INSTAGRAM CLIENT FOR TERMINALS** Written as a joke, this Instagram client can search/browse for users and display images in ASCII. Wrote one version in PHP and an extended one in Perl.

**NETS UNITED 3G ROUTER** A firewall with VPN and routing capabilities over three different phone networks. I designed the system installation and developed many of the modem/network programs (C/C++, PHP), and I wrote and designed the user interface for the device administration (PHP, JavaScript, HTML/CSS).

**CAPAX LAPPFRI INFORMATIONAL DISPLAY FOR HOUSES** Displays information such as weather forecast, current news, communal transportation departures, *et al.*, on a large display. I took care of the system design and programming, security and networking, and GUI/UX.

**BEHOLDEROBOT SURVEILLANCE ROBOT** A surveillance robot powered by Linux, built upon a RC car. I worked on system design and programming, GUI/UX for device administration, and designed the blog.

**MEMFIS FILMPRODUKTION MOVIE WEBSITE** Front-end development and some design work on the Mammoth website, around 2009.

**VIEW ONLINE IMAGE GALLERY WEBSITE** A free online gallery for high-resolution pictures with support for contact list, comments, *et al.* Front- and backend development, database configuration, and GUI/UX.

## REFERENCES

Through the years I have grown both personally and professionally, something that former colleagues and associates' will attest.

NAME	JOB POSITION	WORKPLACE	PHONE NUMBER
Robin Morero	Sr. Developer/Sys. architect	Telia Sonera AB/Textalk AB	+46 (0)72-240 40 03
Fredrik Liljegren	Development Manager	Textalk AB	+46 (0)70-045 69 56
Rasmus Thord	Project Manager	Memfis Filmproduktion	+46 (0)73-503 39 37
Henrik Stolpe	Business Developer	Capax Instrument AB	+46 (0)31-709 68 00
Niklas Nilsson	C.E.O.	Capax Instrument AB	+46 (0)31-709 68 00
Øystein Andersen	Developer/Teacher	Sun Microsystems/Göteborgs Tekniska Institut	+46 (0)70-825 09 68
Allan Hédin	Teacher and Author	Göteborgs Tekniska Institut	+46 (0)31-17 49 40
Carl Löfqvist	C.E.O.	Wicked Tattoo	+46 (0)70-779 13 08

## EDUCATION

Göteborgs Tekniska Institut	
Computer Science and Telecommunication	
High school	1998-2001
KY/Higher Vocational Education	2003-2005

## EMPLOYMENT

IPC-technician, Capax Instrument AB	2002-2003
IPC-technician, Capax Instrument AB	
Software developer, IPC-technician and systems administrator, Capax Instrument AB	2008-2011
Programmer/Scripter, Textalk AB	2011-present
CTO and CEO, Specimen	2013-present