

Curriculum Vitae

Serge Helfrich

Personal Details

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Summary

I started as an IT professional in 1995, developing data validation software for the pharmaceutical industry. I made a shift towards defense industry, being responsible for development and integration of platform software for radar and fire-control systems. Currently I use my knowledge of (a.o) Java and Unix to develop mobile and web applications, varying from casual apps to integrated business solutions.

Experience

Independent Developer

Period: July 2016 – present

Methods and techniques: Java, Android SDK, Android Studio, Gradle, Spring Boot / Hibernate (REST API), Junit 4, Python, PyCharm, Flask, MongoDB, JavaScript, Git, GitHub, PHP, Travis CI, Raspberry Pi, Arduino, LoRa

- Several apps on Google Play (and other stores)
- Several Debian packages
- Open Source projects
- Freelance projects

Android Developer

Period: February 2017 – January 2018

Magneds B.V.

Methods and techniques: Java, Android SDK, Android Studio, Gradle, Mercurial, SourceTree, Git, Atlassian Stack, Scrum

Magneds develops loyalty solutions for customers like FrieslandCampina, Heineken, Coca-Cola, Mondelez, Texaco, AVIA and Pathé.

- Development and maintenance of several loyalty apps, like Eurosparen by FrieslandCampina, Heineken Biertegoed and Pathé All Stars.
- Maintenance of a Java application for anonymizing user data.
- Participation in project teams (waterfall and Scrum)

Android Developer

Period: January 2016 – May 2017 (part-time since February 2017)

Sigrow B.V.

Methods and techniques: Java, Android SDK, Android Studio, Gradle, Python, PyCharm, Flask, MongoDB, JavaScript, Git, GitHub

Sigrow develops modular sensor systems and software to make modern horticulture easier and accessible to anyone.

- full development of Plant Hero on Android, an app that offers support to professional and casual growers.
- full development of Dynamic Nutrients on Android, an app that offers support to professional and casual growers.
- development of a REST API to expose sensor data to external software (e.g. growth modeling, disease risk prediction).
- supervision of the development of Crops under Control, a web application to present and process sensor data.

Android Developer

Period: January 2011 – Current position

Quality-IT B.V.

Methods and techniques: Java, Android SDK, Android Studio, Gradle, Eclipse, Db4o, SQLite, REST, JSON, DAO design patterns, Q-Fieldservice, Google Play Services, OpenStreetMap, libGDX, Git, GitHub.

Q-Fieldservice is a complete planning and work order processing solution for field staff. A central planner application integrates with a mobile application running on smartphones. Full development of Q-Fieldservice Mobile for Android:

- translation of Windows Phone functionality to Android
- design and implementation of Q-Fieldservice within the Android framework
- development of a layer to connect to Microsoft REST services
- Upgrading to new platform releases on tablets and phones
- Writing user documentation for Q-Fieldservice

- Development of SOS4US for Android, a personal social network for emergency situations, www.sos4us.com (commissioned by MF Producties)
- Development of several Android apps on Google Play.
- Software localization: English, Dutch, German

Technical Application Manager BaanERP

Period: January 2003 – Current position

BO-IT B.V. / from 01-01-2010: Quality-IT B.V.

Methods and techniques: Unix, ksh, Perl, XML, Java, BaanERP, Java, ITIL, PHP, MySQL.

Coordinating role in the implementation of an iCRM application at KPN Entercom Solutions B.V.:

- maintaining contacts with testers and functional specialists
- managing developers and operational UNIX administrators
- setting up standard environments (development, test, production, etc.)
- version control on source files (RCS)
- release management, building and releasing distributions, using an SDMI derived configuration management system (XSDMI)

Responsible for technical application maintenance BaanERP at KPN Entercom Solutions BV / BPG-IT. The BPG-IT department is responsible for maintaining business processes and all supporting tools, interfaces, infrastructure and data.

- development of shell scripts and Perl programs to generate periodic technical and functional e-mail reports
- set-up and maintenance of FTP-based connections between the central ERP system and periferal application servers (e.g. finance and order management)
- technical maintenance of online interfaces (application integrations)
- technical maintenance of Baan ODM (object data management, client-server)
- writing and maintaining technical documentation concerning application installation and maintenance for operational UNIX administration
- handling technical incidents and change requests (analysis, execution)
- managing operational UNIX administration for applying patches, modifying shell scripts, etc., in a production environment
- maintaining contact with Baan developers during the handling of 'cases'.

For Bo-IT involved with the development of web applications in PHP/MySQL (both in-house and for customers).

Owner

Period: September 2006 - December 2009

Helfrich Distillery

Artisanal distillery.

- requesting required environmental and alcohol tax licenses
- maintaining contacts with government officials
- setting up an alcohol tax administration
- artisanal spirit production using an alembic for aroma distillation
- setting up VPN connections between company locations

Owner

Period: May 2005 - December 2009

Helfrich Dranken

Methods and techniques: PHP, MySQL, PayPal, iDeal

Wholesale / Import-Export

Wholesale enterprise in distilled absinthe.

After the legalization of absinthe in the Netherlands I developed a traditional product from merely natural ingredients. The company imports raw materials and equipment, and exports the final product to several EU countries.

- recipe development based on literature research and experiments
- guiding distillers in the production process
- maintaining contacts with customers and suppliers
- customer acquisition
- purchase of raw materials and equipment
- sales to retail, wholesale, restaurants and bars
- development of a product site
- development of PHP scripts for VAT and revenue calculations
- implementation of a web store in PHP/MySQL, development of customizations, integration with payment modules (PayPal and iDeal)
- configuring a Linux webserver for test environments (Apache/MySQL/PHP)

Technisch Applicatiebeheerder BaanERP

Period: January 2002 - December 2002

**PTS Software b.v.
KPN Entercom, Utrecht.**

Methods and techniques: Unix, ksh, Perl, XML, Java, BaanERP, Java, ITIL.

Started at PTS as a technical application manager. See above for details.

Product Manager / Consultant

Period: October 1998 - December 2001

**PTS Software b.v. | Bussum
Hollandse Signaalapparaten / Thales Nederland**

Methods and techniques: Unix, VxWorks, SigMA, C, SCMS (config. management), PowerPC, TCP/IP.

The BU Combat Systems develops and integrates software for target systems in a Sun Solaris environment. Target platform software needs to be integrated and instantiated for various hardware platforms.

- responsible for instantiations of the Signaal modular software architecture for target and test systems
- installing test systems
- writing and maintaining documentations
- processing and solving change requests and issues in the installation and instantiation software (including documentation)
- maintenance of installation tooling (C applications and Unix shell scripts)
- porting Sun Solaris installation tooling to a PowerPC architecture
- realization of platform releases for end users (installation media, manuals, release notes)
- automatic generation of release documentation from the configuration management system and presentation on an Apache webserver
- maintaining contacts with developers and testers (project teams)

Clinical Data Manager

Period: September 1997 - August 1998

IMRO TRAMARKO B.V.

Methods and techniques: ClinTrial, RS/1, RPL, VAX/VMS, Oracle, SQL.

Responsible as a Clinical Data Manager for review and validation of clinical data, database development and software development for data validation and conversion.

Clintrial Development Associate

Period: April 1996 – March 1997

N.V. Organon

Dept. MRDU - CDS&P. Responsible for database development, database harmonization and participation in clinical study teams.

Project Manager

Period: April 1995 – March 1996

N.V. Organon

Methods and techniques: ClinTrial, RS/1, RPL, VAX/VMS, Oracle, SQL.

Dept. MRDU - DHQC en CDS&P (Clinical Data Systems and Programming). Responsible as a project manager for the implementation and usage of the CRF (Case Report Form) Tracking System, for the purpose of project management. Furthermore responsible for optimizing, maintaining several small application (Oracle, SQL, RS/1). Later involved with clinical database development, planning and harmonization.

DHQC employee

Period: February 1995 - March 1995

N.V. Organon | Oss

Dept. MRDU - DHQC (Medical R&D Unit - Data Handling and Quality Control): Responsible for the end validation of clinical data and writing validation reports.

Education

2008	ITIL Fundamentals	Self study
2002	Course Application Administration BaanERP	Baan Company
2001	Course Personal Software Process,	PTS Software B.V.
2000	Configuration Management Training (SCMS)	Hollandse Signaalapparaten.
2000	Course Avanced Unix, shell, sed and awk	AT Computing.
1999	Course TCP/IP	AT Computing
1988 - 1994	University, Medical Biology	K.U. Nijmegen
1981 - 1988	VWO	Stedelijk Lyceum, Zutphen

Relevant Hobbies

- Android app programming, <https://goo.gl/Yw78A8>
- Open-source programming, <https://github.com/Pygmalion69>
- Raspberry Pi projects
- Arduino projects
- Linux