

# Curriculum Vitae Joost Helberg

## Personalia

Name	Joost Adriaan Helberg
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## Personal information

I'm a customer-success driven IT-specialist in the fields of PostgreSQL, data engineering and application architecture. The last years I conducted several RDBMS design and data-presentation projects, alongside creating business opportunities in the field of IoT data-gathering, face recognition, HR-facilities and computer directed natural dialogues. My software has applications in HR-businesses, several art projects, psychometric tests and large scale IoT measurement projects.

Most of this happened after concluding twenty years of running the IT and IT-recruitment department of a mid-sized Unix consultancy company.

After years of combining database and software development with being part of the board of a company with 140 employees, I am foremost dedicated to education and the use Data Science as a means to improve businesses. I'm exploring *R* and *Go* next to *PostgreSQL* as my tooling.

Last, but not least, circularity and sustainability grabbed my interest while being involved in a startup with circularity in consumer electronics as a goal.

## Education

- 2017 Workshop Data Science – Big Data Republic
- 1995 – 2017 semi-yearly NLUUG conferences – NLUUG
- 2011 European PostgreSQL Conference – pgconf.eu
- 1985 – 1987 Computer Science, not finished – University of Utrecht

## Memberships

- CRKBO Registered teacher ICT
- Association for Computing Machinery; Professional member since 1978

## Skills

Graded according to the European e-Competence Framework: E-CF.

### Tooling

GNU Emacs	e-4
Org-mode	e-4
git	e-4
LaTeX	e-4
Docbook/XML	e-4

### Programming Languages

SQL	e-5
sh	e-5
Go	e-4
R	e-3
C, C++	e-3
XSLT	e-3
elisp	e-4

### Operating Systems

GNU/Linux	e-5
Ubuntu	e-4
Raspbian	e-4
FreeBSD	e-3
CentOS	e-3

### RDBMS'

PostgreSQL	e-5
SQLite	e-3

## Hosting

Postfix	e-4
Apache	e-3

## Methodologies

Literate Programming	e-4
Reproducible Research	e-3
Test Driven Development	e-3
Open Source	e-4
GDPR	e-3

## Workareas

Personnel Selection	e-5
Personnel Development	e-4
Editing	e-4
Machine Learning	e-3
Natural Language Processing	e-3
Data Science	e-3
Competence development	e-3

## Workexperience

### iVinci

2022 - <i>present</i>	Development of a large scale intelligent data-gathering service.
2019 - 2022	Development of an IoT data-gathering system, including enriching measurements in a large scale LoRaWAN network.
2020 - 2024	Development of a team-assessment system for competence gap analysis.
2020 - 2024	Development of psychometrical tooling by means of sampling of voice, speech, facial expressions and pose.
2018 - 2019	Development of a facial categorization service aimed at profiling.

## University for applied Sciences Utrecht

- 2020 – *present* Supervising interns during *Æther* projects at the Technical University Utrecht.
- 2022 – *present* Acting as customer for technical student challenges.
- 2018 – *present* Teacher Computer Systems and Networks at the Technical University Utrecht.

## Setup Utrecht

- 2020 Development of the art work *Sorry*, an automated excuse-generator by *Smelt*.  
*Sorry* is based on the *Selection Automat* with some hardware and software changes.
- 2019 - 2022 Development of the art work *Selection Automat*, an automated personnel selector; unbiased, transparent and cost-effective.  
*Selection Automat* was build by Vincent Hoenderop (maker), Jeroen de Vos (dialogues) and me (coder).  
We presented this bot at the NSvP-event *AI in Recruitment* at the Methaalkathedraal on June 18 2019.  
We also presented this bot at *Beyond Human* at Naturalis between 4 and 6 November 2019.  
In November 2022 I presented this bot at the yearly VNG Realisation Conference, occasionally it is (approx. yearly) presented on other conferences as well.
- 2019 - *present* Development of the art work *Pinteresque*, a conversational speech assistant which keeps the conversation going with your hairdresser.
- 2018 - June Development of *Paaltje*, an *automated activist*, which brings citizens and local government closer together.  
The concept was developed with Dirk van Weelden, artwork by Maarten Kip.  
I was responsible for choosing and developing all software, system and hardware.  
We presented *Paaltje*, including a live demo, at iBestuur 2018 in The Hague.
- 2018 – *present* Consultant for Setup Utrecht.  
*Setup Utrecht* is a medialab.

## Reflexo

2019 Application and Database architect.

## Cistus

2019 – *present* Building various speech-technology applications using voice-to-text, text-to-voice and decision making in between.

2019 – *present* Software architect at *iVinci*. A company building learning systems.

2018 – *present* Consultant for Repeat.  
*Repeat*, previously known as Gerrard Street, sells and rents out high-end headphones with a life-time guarantee.

2018 Consulting Architect at Woosh5.  
*Woosh5* is a mental fitness platform, it helps sustainability of the inner donut circle.

2018 - May Development of the Reducer, a format-agnostic embedded-SQL reporting tool in Go.  
Import this into your Go-package with:  
`import "gitlab.com/jhelberg/reducer/src/reducer".`

2017 – *present* Publisher of <https://litpro.nl>

2017 – *present* Publisher of <https://gdprunplugged.eu>

2017 – 2018 Moving various fixes upstream in Open Source projects.  
Implementation of some e-mail products in the area of delayed delivery and last-message-wins reporting.  
Work in the area of reporting, statistics and data visualisation from, among others, RDBMS sources.  
Work in the area of avoiding GDPR non-compliance with technical means.

2017 – *present* Teaching two-day SQL courses.

## Snow (now known as SUE)

Founder and Chief Technology Officer at a large consultancy company specializing in Unix.

2010 – 2017 Data analysis and visualisation using R, including KPI's.  
Presentation of exponential time series.

Design and implementation of an entire KPI-architecture.  
Selecting telco-contracts by projecting costs based on millions of actual call-detailrecords.  
Fulfilling management decision making.  
Support and attend to Bachelor graduation projects.  
Setup and running the internal project organisation.  
Responsible for the program of the yearly Snow Unix Event.  
Moving towards the E-CF competence framework with gap analysis and matching capabilities.

2001 – 2017 Editor in chief and final editor of the renowned LPIC2 Exam Prep, (<http://lpic2.unix.nl>), delivering a new release each time the new objectives come into effect.

1997 – 2017 Selection and tarif determination of consultants.  
Design of all of the education routes for consultants.  
Design and maintenance of the certification framework.  
Design and development of the internal CRM/ERP system, which covers most GDPR compliance.  
Procurement of all server IT equipment.  
Management of the internal IT infrastructure.  
Coordination of monthly technical meetups.  
DBA and data-architect on PostgreSQL 7.2 until 9.6

2002 – 2014 Conductor of workshops and training-sessions in the area of literate programming and effective authoring.

1998 – 2001 Author of articles and columns in IT glossies.  
Among others: *Open Computing*, *Linux Magazine*, *PC Werkstation*.

1997 – 2010 Managing a growing number of consultants, up to 100.  
Conducting personnel appraisals twice a year for each consultant.

## **Dutch Government**

As a specialist in Open Source, I was invited to take part in various governmental undertakings in this area.

2004 – 2007 Participant at the consultation on Patents by the Ministry of Economic affairs.

2004 – 2005 Participant Task Force Open Source Motor for the *Advisory Board of the Market*.

## **Irdeto**

I was a C++ developer in a period where Irdeto moved from analog scrambled pay TV to DVB. One of their new areas was *Impulse Pay per View*.

1996 – 1997      Design and development of an IPPV digital TV System.  
The system was used in the Serie-A soccer matches  
in Italy.

## **PeopleSoft**

Starting in EMEA, PeopleSoft needed a strong technical presence winning business. PeopleSoft was later acquired by Oracle.

1995 – 1996      Pre-sales consultant for Peoplesoft client-server  
solutions in HR and Financials.

## **Oracle**

The porting center for EMEA based platforms was located in de Meern, the Netherlands. It managed to release platform-versions between days and just a few weeks after the base-release for VMS was available.

1993 – 1995      Porting engineer for all Siemens Nixdorf platforms  
of the Oracle RDBMS versions 6, 7 and 8.

## **Siemens Nixdorf**

Nixdorf Computer, later Siemens Nixdorf, built a fault-tolerant VME-like Motorola mini-computer. The UNIX System V OS hardware specifics were designed and developed in Vianen, the Netherlands. We also moved Berkeley sockets into System V and introduced paging.

1987 – 1993      Senior Operating System Development engineer,  
later also team-lead of networking development.

## **University of Utrecht**

The computer science department had bought an *Apple LaserWriter* and needed some way of addressing it through  $\text{\LaTeX}$  and Troff.

1986 – 1987      Developer of a Troff to Postscript printer driver.

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