Gijsbert ter Horst

Software Developer

personal

experience

Male **birth-date**March 25th 1991

contact

Beckumerstraat 171^C 7548 BD Boekelo Netherlands

+31 6 13483632

gijsbertth@gmail.com github.com/ghostbird ghostbird.nl

languages

(native) Dutch English Norwegian (poor) German (worse) French

programming

Typescript
C# 12
Angular 17
MongoDB 7
Javascript
Python 3
C
SQL
Lua
PHP
Java

2016-now **Intar B.V.**

Software developer

Enschede, Netherlands

full-time

We create conneqt a low-code platform that makes it easy to automate complex processes for the non-technical end-user. (More below)

Seconded twice to Sigmax for a total of approximately two years for SQL queries, OAuth2 integration, AngularJS refactoring and optimisation, AngularJS to Angular rewrite, moving teams from TFS to git, Cypress e2e tests etc. Both for Sigmax and for contracted work at Intar I worked for government mu-

nicipalities mainly related to parking-permits and -exemptions.

2014-2016 Controllab Products B.V.

Software developer / system administrator

part-time

- Implemented evaluation version of coupling between 20-sim and Matlab through Apache XMLRPC + Matlabcontrol.
- Created GCAT Evaluation, a test suite that *dynamically* verifies the correctness of C-code generated by 20-sim.
- Fixed several issues in 20-sim C-code generation that were detected by GCAT.
- Research on the possibilities of static analysis of the C-code generated by 20-sim, focused on MISRA C compliance.
- Automated tracking of issue tracker statistics, calculates and graphs related ISO9001 KPIs over time.
- Set up centralised user account system using Samba on redundantfailover Debian servers. This provides employees with one account that can login to both the windows and linux machines in the company.
- Set up groupware servers for e-mail and calendar, including e-mail virus scanning and spam filtering that adapts based on e-mails employees move to/from their spam folder.

2012-2017 University of Twente

Undergraduate Teaching Assistant

Teaching, examining, and grading students.

- Operating Systems in 2012 & 2013
- Databases in 2013
- TOM: Data & Information in 2014
- TOM: Operating Systems in 2014-2016

Twente Academy/Pre-U: Educational developer and teacher

Pre-U (formerly Twente Academy) is the university's pre-university college.

- Developed and taught a Masterclass Hacking in 2013–2016
- Guidance of secondary school final projects in 2014–2017
- RED Engineers Challenge, primary school guest teacher in 2014

2012-2019 Personeelsservice Nederland B.V.

Enschede, Netherlands

Stock-taker

Pays legal minimum wages, part of the company revenue is paid to charities.

software

MTFX2e Visual Studio Code Git Docker OpenTofu Kubernetes Inkscape Dia **GIMP** Blender FreeCAD PrusaSlic3r LibreOffice Audacity FFMpeg CasparCG Bridge

hardware

Wireshark

Custom desktop Raspberry Pi's NVIDIA Jetson Prusa 3D printer

operating systems

Debian
Ubuntu
OSMC
Raspbian
Alpine
Historical:
LMDE
Linux Mint 13
Ubuntu 9.10-11.04
Windows 7

2009-now THICT

Owner

My own company, which is dormant right now.

- 2017: Developed a central heating system leak testing machine for Emergo Hout & Bouw B.V.
- 2010: Developed two machine interfaces for Beun- De Ronde B.V.
- Helpdesk and troubleshooting
- General IT advice (hardware, software, licensing, legal)

2007–2019 **DWN** Netherlands

Volunteer zero-hour contract

No wages, the company gives directly to charities for every hour worked.

- Technician at De Oude Usselerschool
 - Audio, video & stage lighting
 - Maintenance of technical facilities
 - Replaced analogue (PAL) video system with digital system in full HD.
- Stock-taker
- Minor jobs: cleaner, construction worker, crew marathon Enschede

2013-2014 Bonhoeffer College location Bruggertstraat

Computer Science teacher

internchi

A year later one of the computer science teachers who mentored me during the internship left, and I was offered the post. I had to turn down the offer at that time.

2008-2009 PSS Development

Software Engineer

Stadskanaal, Netherlands

full-time volunteer through A-Team Pagedal

- C# ASP.NET web applications
 - T-SQL databases, design and coupling to legacy systems

publications

2018 **Bachelor's thesis** Proceedings of the 29th Twente Student Conference on IT

LoRa Passive Positioning: Analysis of the effects of various parameters on performance

awards

2013 Cake University of Twente, 19th Twente Student Conference on IT

Cake for Best Poster and Explanation for team project: Solver for GearSketch

2018 **Nomination** University of Twente, 29th Twente Student Conference on IT

Nominated for Best Paper for bachelor's thesis

communication skills

software: With design experience in software teams I am well versed in the discussions around design choices. I can explain and defend my choices, and accept when the final design will not be as I envisioned.

client wishes: I have done some work for my own company where I discuss the client's wishes with them. When I did live A/V work for parties, weddings or funerals I asked the client their wishes, and show what I can do for them. In written communication, I am proficient in both Dutch and English at various levels of formality from poignant memes on Discord up to EULAs and privacy policies.

education: With various jobs in education, I have experience in how to present information in a way that improves clarity and facilitates understanding, without undermining the factuality or accuracy of the material.

accuracy: When contracted for government municipalities I have seen how messy things get when the meaning of texts is eroded in a bid to be more accessible to every civilian, and the editors forget that such government publications are legally binding in the Netherlands. In those cases it is vital to be correct, *if necessary* at the cost of ease of understanding. Especially

now that it has become relatively easy to generate explanatory supplemental material using LLMs, which are often very good at working with complex texts, as long as they're correct and accurate.

accessibility: As noted above, government communication editors focus on the texts they send the citizens, and how the e-mail looks. The end-result looked correct, and this was fine for printed letters, but the underlying code often was a mess. I then transformed those texts into strictly semantic HTML, such that the e-mails based on those templates not only looked correct, but could be understood by assistive technology such as screen readers and brailledisplays.

print production: Though not particularly talented at graphical design, I have some insight into the process of transferring digital media to print, using free tools such as GIMP, Inkscape, Large, etcetera. With the rise of generative AI, these skills have become unexpectedly more relevant. The AI can provide artistry to non-artistically skilled users, but it cannot (yet) provide the link to production of the generated works.

interests

professional: information security, system security, UNIX-like operating systems, computer hardware, software, FOSS software, software licenses, information law, source management, self-hosted / edge AI

personal: books (fantasy, sci-fi), hacking hardware and software, GNU/Linux, Raspberry Pi,

rocket science, 3D-printing, and many other things

religious: Brunstad Christian Church