E: sjors (at) sjorsgielen.nl / W: sjorsgielen.nl

I am a software engineer with a wide interest and passion for the entire stack, both new and classic software and technologies, especially where combined, networked and/or highly available. My extensive working experience comes from industry positions, joining and leading public open-source projects, as well as many hobby projects of my own. I am comfortable working in a team, as well as independently. I am strongly motivated by the positive impact I can have on other people through the software I write.

Born 1991, in Oosterhout, The Netherlands

SKILLS AND PROFICIENCIES

Natural languages: Dutch native, English near-native

Programming languages: C++ (11/17+), C, C#, Bash, Python, Perl, Typescript/Javascript, Go, Java

Technologies: Qt (certified), Boost, DCMTK, SQL (SQLite, PostgreSQL, MySQL), Git, Web protocols (HTTP/REST, SMTP, DNS, SIP, gRPC), CMake, DICOM, Vue 2/3, RabbitMQ, Docker, Kubernetes, virtual machines, AWS cloud

Conferences regularly attended: FOSDEM, CCC, RSNA, aKademy

WORKING EXPERIENCE

Entrepreneur at Centralized

November 2021 - curent

• With two partners, I founded Centralized, an e-commerce software system for managing products, stock, orders, purchasing, warehousing and fulfillment in a single central system.

Research development lead engineer PERFORMS at University of Nottingham May 2019 - current

 In this role, I am architecting and developing a new prototype multi-modality radiologist assessment platform.

Freelancer for various clients

August 2018 - current

DevOps tech lead & principal engineer at CCV Group

November 2019 - February 2022

- Principal engineer on the terminal management platform department.
- Introduced DevOps culture within the department (±50 people) and oversaw migration from an on-premises datacenter to the AWS cloud.

Development team lead / software engineer at ScreenPoint Medical May 2014 - November 2019

- Lead product developer for ScreenPoint's flagship breast cancer recognition product, Transpara.
- Built and led a team of seven developers.

Side project: developer of Cosix, a capability-based operating system June 2015 – July 2019

- Challenging myself to learn more about the low-level workings of operating systems and the x86 architecture, I set out to write a kernel and operating system from scratch. I experimented with various designs to implement typical operating system features.
- While working on Cosix, I learned about low-level workings of the IBM PC platform, handling
 hardware and software interrupts, process scheduling and administration, virtual memory
 management, communication with hardware, inter-process communication, networking, file
 systems and many more facets of operating systems. I also joined the development of CloudABI, the operating system-independent application binary interface Cosix uses for its binaries,
 allowing capability-based applications to run on it exclusively.

Billing SRE intern at Google

September 2014 - February 2015

- Implemented load balancing of various Billing and Payment services and efficient usage of computational resources in highly available services at Google scale.
- As a side project, I worked on sunsetting and cleaning up old frameworks by refactoring to newer versions.

Entrepreneur at Limesco

November 2010 - October 2016

• Co-founded Limesco, a virtual telecom operator, with two friends. Our purpose was to provide the best service to (white-hat) hackers, software engineers and IT specialists alike.

Software developer at Radboud University Medical Center August 2012 – September 2014

• At the RUNMC, I owned a major project of converting loosely-written academic C/C++ computer-aided detection software from the nineties towards clinical quality.

Fink maintainer porting various Linux projects to macOS

2011 - 2015

Teaching assistant at Radboud University Nijmegen

2011 - 2012

• Gave tutorial courses on subjects Processing and Processors

Developer of WikiLeaks search engine Argos Machinery at VPRO

2010 - 2011

Technical staff at CodeYard

2010 - 2011

CodeYard was a coaching organization for high school kids learning to program collaboratively on open source projects. I helped them work together on their applications and was involved in hosting the version control systems and forums.

Lead developer at the open source project KMess

2009 - 2011

• KMess was an open-source instant messaging client, developed by a team spread out over Europe. We wrote a fully featured open-source clone of the Microsoft Live Messenger client by reverse-engineering its communications.

Lead developer in the open source project Starez

2007 - 2009

• Starez won the Capgemini CodeYard Open-Source Award in 2008.

EDUCATION HISTORY

Master degree in Telematics at University of Twente, NL

2013 - 2016 (DNF)

- The Telematics degree combines telecommunications and computer science, and involves all layers of the OSI model from copper, optic and wireless physical layers to application layers.
- I stopped in 2016, because I chose to focus on my career at ScreenPoint instead of my academic career.

Bachelor thesis at Radboud University Nijmegen

2011 - 2012

• SIM Toolkit In Practice: how the SIM Toolkit standard is implemented in mobile phones

Bachelor degree in Computer Science at Radboud University Nijmegen

2009 - 2013

• Bene meritum and Honours Academy judicia.

PERSONAL

- Member of Hackerspace Nijmegen.
- Assurer for the CACert.org project.
- Mentor for the Google Summer of Code programme in 2010.
- Certified Qt developer with certificate from Nokia.