

Curriculum Vitae

Jarra Schirris

Personal

Name	Jarra Schirris
Date of Birth	24 December 1974
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Nationality	Dutch

Skills

- Ruby, Elixir, Haskell, Python, Julia, Rust, Java, C#, Javascript, Bash, PHP
- Strong analytic and debugging skills
- Postgres and Mysql DB optimisation, RabbitMQ, Redis
- WGPU, TensorFlow, OpenCV, Souffle Datalog
- Complexity Science, Digital Signal Programming, Category Theory
- OOP, Functional Programming, TDD, Software Architecture, Clean Code, Automated Testing
- SAML, OAuth2, OIDC
- TDD with Pytest, xUnit, ExUnit, RSpec, Cucumber (in Python, Java, Ruby) and Capybara, Selenium, XPath
- Vim, Git, Tmux
- AWS, Docker, Docker Compose, Apache, Nginx, Linux, Networking
- Sustainable Software, Open Source, Lean development, Kanban, Lean Startup
- <https://github.com/suhrawardi>

Profile

20+ years of experience in Software Development in various programming languages like Ruby, Elixir, Haskell, Python, Julia, Rust, Java, C#, Javascript.

Specializations:

- A **precise** and **thorough** way of working
- **Test Driven Development** and Automated tests
- Focus on **maintainable Software** and Architecture
- **Debugging**
- Getting problematic IT projects back on track

I have been involved in projects with security as a main focus and I have an adequate understanding of SAML, OAuth 2.0 and OIDC.

Besides work I'm immersed in studying Complexity Science (especially networks and cellular automata), Systems Thinking and Digital Signal Processing.

My enthusiasm for learning is reflected in my continuous exploration of new techniques and programming languages.

I am happy to travel throughout the Netherlands to work on location.

Education

1987 – 1993

Kunstacademie St. Joost, Breda

Fine arts, drawing and painting

1987 – 1993

Peelland College Deurne

Atheneum

Experience

Januari 2023 – Now

ThermoFisher, Eindhoven

C#, WPF, ASP.NET, xUnit

- Building a Network Indicator with a Mean Opinion Score based on Ping and Npcap data
- Worked on a WPF GUI application and ASP.NET gRPC Microservices
- Created automated integration tests and unit tests using xUnit and Moq

Januari 2023 – June 2023

Art Project

Rust, WGPU, OpenCV, TensorFlow/Keras, Cellular Automata

- A personal art project that renders Cellular Automata in the GPU
- Face detection using TensorFlow/OpenCV
- OpenCV is used to calculate the perspective of the viewer, which is used to change the camera perspective in the rendering

April 2020 – Now

Sdu Uitgevers, Den Haag

Python, Pyramid, Pandas, OData, XPath, AL for Dynamics 365 Business Central, Docker, Docker Compose, AWS, Github Actions, Boomi, Plantuml

- Architecture of integration with other applications
- Responsible for the migration of existing data for 1 Dutch and 3 Belgian publishing houses into a BusinessCentral/knkPublishing ERP implementation using ODataV4
- Boomi implementation
- Build an Importer in Python to enrich and import uploaded Excel data and providing detailed logs and reports about the imported data
- Development of some BusinessCentral extensions in AL
- Automated generation of documentation using Python, Markdown, PlantUML and Pandoc
- Automated testing/Quality assurance of the ERP platform

July 2021 – December 2021

Sdu Uitgevers, Den Haag

Julia, Souffle Datalog, Selenium

- POC for an application to tests all possible flows in a browser based workflow application
- Using Souffle Datalog to calculate all possible paths in a given workflow
- Due to changes in the organisation the project was not continued

April 2019 – April 2020

Sdu Uitgevers, Den Haag

Java 8, Cucumber, Selenium, RabbitMQ, Mysql, OIDC, LDAP, SAML2.0, JWT, Spring Boot, Docker, Docker Compose, Circle CI, Github Actions

- Managed to get a troubled project back on track and contributed to a very successful launch
- Setting up CI and CI best practices
- Setting up an automated test environment using Java 8, Cucumber, Selenium, Docker and Docker Compose
- Debugging and troubleshooting

April 2018 – April 2019

Reisbalans (Mobiliteitsfabriek), Amersfoort

Ruby, Rails, RSpec, PostgreSQL, Memcached, Javascript, Webpack, GraphQL, React, Jenkins, Vagrant, Ansible, Passenger, Nginx, Que, Elasticsearch, Filebeat

- Team Lead, Scrum Master
- Migration of a large RoR application to an in house development team

November 2016 – March 2018

Kabisa (Philips Lighting), Weert

Elixir, Phoenix, PostgreSQL, JSON-API, Coffeescript, Marionette, BackboneJS, Javascript, Preact, Redux, Cordova, OAuth2, Nginx, Database optimization, High performance

- Responsible for the backend of Philips HueLabs in Elixir and Phoenix
- OAuth2 integration
- Database optimisation
- Extreme fast response times (avg 20ms) under high load (100_000 requests per hour)
- Our PO won the Philips Lighting Research's Outstanding Achievement Award for HueLabs

May 2016 – November 2016

YoungCapital, Hoofddorp

Ruby, Rails, RSpec, Cucumber, Elasticsearch

- Maintaining of and improving the platform that runs the main YoungCapital sites
- Introducing TDD and steering towards a 'lean enterprise' development process

May 2015 – April 2016

Digidentity, Den Haag

Ruby, Rails, SAML2.0, JWT, OAuth, PostgreSQL, Mysql, Docker, Vagrant, Rack, Redis, RSpec, Cucumber, Security

- Responsible for a Dutch government project to enable a high trust identity provider to the DigiD services, enabling login with ID or driving license
- Development for a gov.uk identity provider for the British government

September 2013 – April 2015

Network Operations, Tele2, Diemen

Ruby, Rails, RabbitMQ, BackboneJS, Coffeescript, RSpec, Teaspoon, MongoDB, Graphviz, Workflow engines, Oracle, Networks

- Development of a workflow based application used for commissioning and testing the Ethernet Switches that connect the 4G network to the Tele2 Metronet

December 2013 – Januari 2014

PictureFix, Rotterdam

NodeJS, Javascript

- Designing the architecture and the creation of a POC for a new service of a startup

May 2013 – August 2013

Network Operations, Tele2, Diemen

Ruby, Rails, RabbitMQ, BackboneJS, Coffeescript, RSpec, MongoDB, Oracle, SQL Server

- Development of an application for auditing of mobile numbers, fetching and comparing data from various systems within the network

Januari 2013 – April 2013

Malmberg, Den Bosch

Coffeescript, BackboneJS, Ruby, Rails, JQuery, MongoDB, SQL Server, RaphaëlJS, RSpec, Capybara, Jasmine, SinonJS

- Development of an e-learning platform as a single-page HTML5 Web App
- Collecting and visualising statistics

July 2012 – January 2013

Network Operations, Tele2, Diemen

Ruby, Rails, EventMachine, RabbitMQ, SOAP

- Development for an application used for the commissioning of Fibre modems and for an application used for creating and managing VPN's

October 2010 – January 2014

Memorizr

Ruby, Rails, RSpec, Cucumber, Javascript

- Creation of an online application for sharing and discussing content from other websites
- Development of the cache_mailer en capybara_email gems

March 2012 – May 2012

Streamit BV, Eindhoven

Ruby, Rails, Coffeescript, BackboneJS, JQuery, Rack

- Rebuilding a Rails application into a single page web app

November 2011 – Februari 2012

Freeway Entertainment, Budapest, Hungary

- Penetration tests, Security review and consulting on Security and Privacy related matters
- Consulting on the possibilities of automating various work processes

June 2010 – February 2012

Sdu Uitgevers, Den Haag

Haskell, Ruby, Cucumber, XML, XPath, SOAP

- Introducing Automated Acceptance and Performance Testing (Cucumber, Capybara, Siege)
- Coordination of a migration project of 10+ online and Windows GUI applications
- Development of a High Availability version of the rijksbegroting.nl site
- Creating a GUI application in Haskell

December 2009 – June 2010

Ministerie van Sociale Zaken en Werkgelegenheid, Den Haag

- Responsible for the requirements of a Hippo CMS implementation
- Advocating and promoting Open Source principles through presentations and articles

September 2007 – November 2009

Winkwaves, The Hague

Ruby on Rails, RSpec, Cucumber, PrototypeJS, Scriptaculous, Javascript, Gentoo

- Development of two social networking platforms

July 2005 – September 2007

Peppered BV, Delft

PHP, JavaScript, JQuery, Bash, C#

- Development of various websites for theatres
- Interfacing with payment and booking systems
- Development of a sophisticated newsletter and analytics modules

Volunteering

Advisory for the development of the feature film “Hometown”. Hometown is a community film developed according to Agile Filmmaking principles and had its premiere on the IFFR 2015.

Hobbies

I engage in Field Recording and operate as a boom recorder. I enjoy exploring analog synthesisers and sound manipulation using software like Max MSP and iZotope. My fascination for sound combined with an ongoing curiosity and commitment to continuous learning motivates me to study mathematics and digital signal processing.

Because I enjoy programming I make an effort to teach myself a new programming paradigm or programming language every year.

Night-time walks in a nearby nature reserve and drawing are also part of how I like to spend my time.