



Daniel Schiavini

Curriculum Vitæ

"Daniel is extremely eager to learn. He is very communicative and solution-focused. He combines good and quick results and is particularly popular as a team player in projects. His deep knowledge of many programming languages makes him a source of information for his colleagues. He is very analytical, quickly sees through situations and processes and is therefore perfectly suitable for new environments"

RADJENDER RAMLAL (DIRECTOR, SYNICS B.V.)

My profile

Since young age, full of ambition and eager to learn, I have discovered computing by customizing DOS-games. With a sense of urgency I make websites since I was twelve, when programming became a way to express my reasoning. As a professional I now appreciate being involved in challenging and innovative projects that improve people's lives. I'm proud to craft top-quality software and to improve the world by delivering the most value together with peers and customers. For this I strive to keep my knowledge up-to-date and to find the best way of dealing with a lot of data.

Personal details

Nationality Dutch and Brazilian
Drivers licence Dutch and Brazilian
Expected position Lead/senior full-stack developer

Career overview

2019– **NS**, *Utrecht - Netherlands*, Freelance Software Engineer.
2018–2019 **Ultimaker**, *Geldermalsen - Netherlands*, Freelance Software Engineer.
2016–2018 **App Annie**, *Utrecht - Netherlands*, Senior Software Engineer.
2012–2016 **TriOpSys B.V.**, *Utrecht - Netherlands*, Systems Engineer.
2008–2012 **Synics B.V.**, *Soesterberg - Netherlands*, IT Consultant.
2008 **ForumAccess**, *São Paulo - Brazil*, Freelance Developer.
2007–2008 **Tryst Technologies Pvt Ltd.**, *Jaipur - India*, Lead Developer.
2007 **Ballix Tecnologia e Sistemas**, *São Paulo - Brazil*, Programmer/analyst.
2006–2007 **AutoDoc Tecnologia Web**, *São Paulo - Brazil*, Trainee.

Main projects

The Future Group, Netherlands

The Future Group is a collective of independent entrepreneurs. I am partner of one of their societies, the Web Scale Maatschap. We are specialized in the newest technologies that allow innovative companies to scale almost infinitely.

2019– **Freelance Software Engineer**, NEDERLANDSE SPOORWEGEN, Utrecht.

Engineer in one of the multidisciplinary teams for the Donna software, in which all Dutch trains are planned. Hired as a specialist to help the organization to switch from a giant monolithic Java application build to microservices running in OpenShift with a DevOps mindset. Using Java, Gradle and Jenkins.

2018–2019 **Freelance Software Engineer**, ULTIMAKER, Geldermalsen.

Building a complete state-of-the-art cloud infrastructure for aiding users that want to do 3D-printing. Using the latest and newest of technologies such as Google Cloud Services, Kubernetes, Docker, Microservices, Python, React, Typescript and MongoDB. Great CI & CD infrastructure with completely automated testing, OAuth2 and OpenAPI.

App Annie, Netherlands

2016–2018 **Senior Software Engineer**, APP ANNIE (ASO TEAM), Utrecht.

Engineer in a data heavy environment, working in a team responsible for getting truckloads of data and optimally storing it for retrieval. Building scalable UIs and APIs to make the data available to customers. Use of Python, Microservices, Django, Angular, React, HBASE, Postgres, S3, Redis and Docker.

TriOpSys BV, Netherlands

2014–2016 **S5P Satellite**, KNMI (Royal Dutch Meteorological Institute), De Bilt.

Software engineer and developer for the data processors for the European Space Agency (ESA) TROPOMI instrument. This instrument offers a global coverage with 20 million measurements each day. Main responsible for the in-flight calibration requirements, design, code and tests. Development in C++ and Python in a Linux environment.

2014 **R&D Mobile Development**, TRIOPSYS, Utrecht.

Research and development of mobile application guidelines for the company. Tested the frameworks Xamarin, PhoneGap and Sencha with C#, Java and JavaScript.

2014 **PacMon App and Server**, STANLEY SECURITY SOLUTIONS, Utrecht.

Architect and lead developer of the server and the Android application for Stanley customers. The server uses ASP.net Web API.

2013 **AEOS VMS Adapter**, NEDAP SECURITY MANAGEMENT, Utrecht.

Lead developer for the development of a REST API with ASP.net to abstract interfaces with three different video management systems. It allows metatata retrieval, historical searches and video streaming.

2012–2014 **New generation railway crossings**, VRS RAILWAYS, Houten.

Main engineer for the highly parallelized monitoring system of the new generation railway crossings for Infrabel in Belgium. This system runs in a near real time Linux and C++ environment and keeps track of thousands of variables per millisecond.

Synics BV, Netherlands

2012 **VUnet student portal**, VRIJE UNIVERSITEIT, Amsterdam.

Development of new modules and software interfaces for the VUnet student portal using C# and SharePoint.

- 2010–2012 **Mix2paint**, AKZO NOBEL AEROSPACE AND AUTOMOTIVE, Sassenheim.
Responsible for the Mix2paint application technical maintenance, development of new features and tools, database management and tuning. The main used technologies were Microsoft SQL Server, C# and JavaScript.
- 2009–2010 **Dela CRM**, DELA, Eindhoven.
Microsoft Dynamics CRM implementation and customization for the management of millions of customers, using JavaScript and C#.
- 2008–2010 **C# Projects**, SYNICS, Soesterberg.
Development of several applications, e.g. the Virtual Coach (ViCo), the VNG Congress Calendar, Verbeek Eggstra and VSenV.

Tryst Technologies, India

- 2007–2008 **Lead Developer**, TRYST TECHNOLOGIES, Jaipur.
Lead C# developer supporting several colleagues to develop applications for American companies, mainly in the real state sector.

In Brazil

- 2007 **Programmer/analyst**, BALLIX TECNOLOGIA E SISTEMAS, São Paulo.
Implementing and customizing the Naxtra management software product for several different customers. Development in VB.net and Microsoft SQL Server.
- 2006–2007 **Trainee**, AUTODOC TECNOLOGIA WEB, São Paulo.
Development of content management systems and compliance support web applications for the construction industry, using ASP and PHP.
- 2005–2012 **Server Owner**, CORTEZ ONLINE, personal side project.
Administrator, developer and game master of a successful gaming server and website.

Knowledge areas

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|----------------|--|
| Languages | C#, Python, C++, JavaScript/ES6/TypeScript, PHP, Java, VB.net, Haskell |
| Web | ES6, JSX, HTML5, CSS3, XML, XSLT, Soap, Ajax, Json, REST |
| Cloud | Google Cloud Services, Kubernetes, Amazon Web Services |
| Security | AES, OAuth2, Argon2, RSA, X.509, PKI, code injection, hashing, audits |
| Data sources | SQL Server, MySQL, MongoDB, SQLite, Postgres, HBASE, Redis, RabbitMQ, HDF5 |
| Frameworks | React, Django, Angular, jQuery, Telerik, PhoneGap, Boost, Poco, Qt, Spring |
| Microsoft.NET | ASP.net, MVC, EF, LINQ, WebAPI, WCF, WPF, WinForms, StyleCop, FxCop |
| Methods | CI & CD, DevOps, Agile, Scrum, UML, TDD, BDD, pair programming, SEO |
| Patterns | Microservices, OpenAPI, MVC, Dependency Injection, SOA, data structures |
| IDEs | Visual Studio, PyCharm, Eclipse, Android Studio, Xamarin Studio |
| Source control | Git (GitHub, GitLab, BitBucket), TFS, SVN |
| Documentation | LaTeX, J-STD-016, ECSS-E-ST-40C |
| Platforms | Docker, Vagrant, Windows, Linux, Mac, Android |

Languages

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| Portuguese | Mother tongue (Brazilian dialect) | CEFR C2 |
| Dutch | Full professional proficiency | CEFR C1 |
| English | Full professional proficiency | CEFR C1 |
| Spanish | Limited working proficiency | CEFR B1 |

Education

- 2011–2016 **Bachelor Computer Science**, *Open Universiteit*, Netherlands.
Average grade: 8.8 (Minor in Natural sciences)
Thesis: *Useful feedback in the Ampersand parser*, 2015
Researched and implemented a new user-friendly Haskell parser.
- 2005–2007 **Technology in Data Processing**, *FATEC-SP*, Brazil.
Higher education faculty (ISCED 5) in programming, business administration and system analysis. Interrupted when I left the country and unrecognized in the Netherlands.
- 2002–2004 **Computer technicus**, *ETESP*, Brazil.
Technical and secondary school (including ISCED 3 and 4) in analysis, design, programming and databases.

Courses, certificates & publications

- 2019 Design Patterns certification, Open Universiteit (IM0102/5EC)
- 2018 Pre-launch calibration results of the TROPOMI payload on-board the S5P satellite: atmos-meas-tech.net/11/6439/2018
- 2015 Upgrade MCPD Web Developer 4 to MCSD Web Applications
- 2015 Microsoft: Programming in HTML5 with JavaScript and CSS3
- 2015 Java Unit Testing Training and Certification
- 2014 Professional Scrum Developer Training and Certification
- 2013 IREB Foundation - Certified Professional for Requirements Engineering
- 2013 Certified for the management of low-voltage electrical installations (NEN 3140)
- 2012 IEEE Standards Course for IT Documentation (JSTD-016)
- 2011 State exam NT2, Dutch as a second language (program II)
- 2010 Microsoft Certified Professional Developer (MCPD)
- 2010 Pro certification: Design & Develop Apps Using the .NET Framework 3.5
- 2010 Dutch for foreigners, level 6 (of 6), Volksuniversiteit, Utrecht
- 2010 Microsoft .NET Framework 3.5, ASP.NET Development Certification
- 2009 Intensive personal Dutch language training, Taleninstituut Regina Colie

Interests

- Machine learning
- Traveling
- Cooking
- Beer brewing
- Functional programming
- Weight lifting
- Board games
- Space exploration