Daniel Schiavini

Lead Software Engineer

"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.

Career overview

2021–	**Estamap Housing Services**, *Netherlands*, CTO (partner).
2019–	**Schiavini Engineering**, *Netherlands*, Lead Engineer (freelance).
2018–2019	**The Future Group**, *Netherlands*, Lead Engineer (freelance).
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

Estamap Housing Services, Netherlands

2021– **Housing Microservice Platform**, Estamap *(CTO/partner)*, Zeist.
Implementing state-of-the art housing platform for revolutionizing the Dutch housing market. Using NodeJS, React, MongoDB, NX, AWS Fairgate and ECS.

Schiavini Engineering, Netherlands

2021–2023 **3D-Printing Cloud Platform**, Ultimaker *(Freelance)*, Geldermalsen.
Expanding features and performance of the cloud platform during the merger with MakerBot. Using Python, React, MongoDB, Google Cloud Run and PubSub.

2021 **Traffic Management**, City of Amsterdam *(Freelance)*, Amsterdam.
Software design and roadmap definition for the transition of the Amsterdam traffic management system to a web portal. Using C#, VB.net, Azure, WCF and .NET Core.

2019–2021 **Train Planning System**, NS *(Freelance)*, Utrecht.
Lead Full-Stack working on the Dutch train planning system (Donna) for the Nederlandse Spoorwegen and ProRail. Hired as a specialist to help switching from a giant monolitic application to microservices running in OpenShift with a DevOps mindset. Using Java (Spring), Angular (TypeScript/RxJs/SVG), Oracle and Gradle.

The Future Group, Netherlands

2018–2019 **3D-Printing Cloud Platform**, Ultimaker *(Freelance)*, Geldermalsen.
Creating a state-of-the-art cloud platform to enable 3D-printing in a global scale. Using technologies such as Google Cloud, Kubernetes, Python, React, Typescript, Redis and MongoDB. Set up CI & CD with fully automated testing, OAuth2 and OpenAPI.

App Annie, Netherlands

2016–2018 **App Store Optimization**, 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 Stanle y customers. The server uses ASP.net Web API with JSON.

2013 **AEOS VMS Adapter**, Nedap Security Management, Utrecht.
Lead developer for the development of a JSON 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 PLC monitoring system of the new generation railway crossings for Infrabel in Belgium. It monitors in a near real time Linux and C++ environment and keeps track of thousands of variables every 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**, AkzoNobel Aerospace and Automotive, Sassenheim.
Responsible for Mix2paint, application that allows precise automotive paint mixing to match the color perfectly. 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.

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.

Knowledge areas

Languages	C#, Python, C++, Java, TypeScript, NodeJS, PHP, Haskell, etc.
Web	ES6, SVG, HTML5, CSS3, XML, XSLT, Soap, Ajax, JSON, REST, d3
Cloud	Google Cloud Services, Kubernetes, Amazon Web Services, OpenShift
Security	AES, OAuth2, Argon2, RSA, X.509, PKI, code injection, hashing, audits
Data Sources	SQL Server, MySQL, MongoDB, Postgres, HBASE, H2, Redis, RabbitMQ, PubSub, HDF5, Oracle
Frameworks	React, Angular, Django, RxJs, Telerik, PhoneGap, Boost, Qt, Spring(Boot)
Testing	Cypress, Selenium, PostMan, TDD, BDD, Jasmine, Mocha
Build Tools	Jenkins, Gradle, node/NPM, GitHub/BitBucket/GitLab CI, Trevis, NX, JIB
Microsoft.NET	.NET Core, ASP.net, MVC, EF, LINQ, WebAPI, WCF, WPF, WinForms
Methods	CI & CD, DevOps, Agile, Scrum, pair/mob programming, Reactive, SEO
Patterns	Microservices, OpenAPI, MVC, Dependency Injection, SOA, data structures
IDEs	Visual Studio, IntelliJ/PyCharm/Android Studio, Eclipse, Xamarin Studio
Documentation	LaTeX, UML, J-STD-016, ECSS-E-ST-40C
Platforms	Docker, Windows, Linux, Mac, Android, Vagrant

Languages

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

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	Microsoft Certified Software Developer - Web Applications
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	Pro certification: Design & Develop Apps Using the .NET Framework 3.5
2010	Dutch for foreigners, level 6 (of 6), Volksuniversiteit, Utrecht
2009	Intensive personal Dutch language training, Taleninstituut Regina Colie