



Andrea Reni

Senior Software Engineer

Year of birth  
1986

[Curriculum Vitae](#)

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Wilmsstraße 21  
10961 Berlin  
Kreuzberg  
Germany

Via Asmara 10c  
00199 Rome  
Italy

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## 01. BIO

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Andrea Reni is a researcher and computer scientist with a degree in Mathematics, generally interested in exploring unconventional applications of technology and science.

He is a Vim fanatic and he mainly works with Typescript. He is currently developing a new framework called URANIO. In the past 15 years he developed around 100 websites and applications commissioned by clients from all around the globe.

## 02. AWARDS

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2019 - Developer Awwward 09 June 2019 - <https://www.awwwards.com/>

2019 - Site of the Day Awwward 09 June 2019 - <https://www.awwwards.com/>

## 03. POSITIONS

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2016 - Now

CEO Founder at Nebula 7

<http://nbl7.net>

2014 - Now

CTO - Chief of Technology Office - at Socialrise

<http://socialrise.de>

2022 - Now

Freelance senior back-end engineer at Toptal

<http://toptal.com>

2011 - Now

Freelance developer at andreareni.com

<http://andreareni.com>

2012 - 2015

Professor of software development and web communication at IED Milano

<http://ied.edu>

## 04. EDUCATIONS

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2005 - 2009 Bachelor in Mathematics

Università degli Studi di Roma La Sapienza

2012 - 2014 Enrolled in Cognitive Science

Università degli Studi di Milano

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## 05. SKILLS

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### 05.01 FULL STACK DEVELOPMENT

Currently developing a Framework called URANIO with NodeJS, Typescript, Express, MongoDB and VueJS / NuxtJS.  
Developed 100+ websites.  
Developed a CMS/Framework called CEMENTO in PHP, MySQL and JS.  
Worked in the developing team of the CMS called Camargue.  
[\[https://github.com/x71c9\]](https://github.com/x71c9)

### 05.02 AUGMENTED REALITY

Developed browser based augmented reality webapp with AR.js  
[\[https://andreaireni.com/virtua-posse\]](https://andreaireni.com/virtua-posse)  
Other AR browser based implementations  
[\[https://socialrise.de/p/fila\]](https://socialrise.de/p/fila) [\[https://socialrise.de/p/santoni\]](https://socialrise.de/p/santoni)

### 05.03 MACHINE LEARNING

Trained a machine learning algorithm with Python Tensorflow 2.0  
[\[https://andreaireni.com/eye-of-the-other\]](https://andreaireni.com/eye-of-the-other)

### 05.04 AUDIO DEVELOPMENT

Developed a digital audio synthesizer called ZEPHIR  
[\[https://zephir.xyz\]](https://zephir.xyz)  
Developed multiple audio interactive installations  
[\[https://andreaireni.com/nzena\]](https://andreaireni.com/nzena) [\[https://andreaireni.com/signum\]](https://andreaireni.com/signum)  
[\[https://andreaireni.com/vetro\]](https://andreaireni.com/vetro)

### 05.05 VIDEO DEVELOPMENT

Developed multiple live video installations with custom shaders and 3D models  
[\[https://andreaireni.com/movimento\]](https://andreaireni.com/movimento)  
[\[https://andreaireni.com/atonal\]](https://andreaireni.com/atonal)

### 05.06 SERVER MAINTENANCE, CI/CD

Set up different Linux servers, local and on the cloud.  
Developed CI/CD with Git, Github, Gitlab, Bitbucket, Docker.

### 05.07 CLOUD PLATFORM

Google Cloud Platfotm  
Amazon Web Service  
Microsoft Azure

## 06. PROGRAMMING LANGUAGES, LIBRARIES, SOFTWARES, HARDWARES, API

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Typescript Javascript NodeJS Bash PHP HTML CSS Python Rust Java REST API GraphQL Apollo WebGL GLSL Shaders Sass Pug MongoDB Firestore MySQL PostgreSQL VueJS NuxtJS ExpressJS Knex Konva Puppeteer ThreeJS Augmented Reality Kit TensorFlow Docker docker-compose Firebase AWS Amazon Web Service GCP Google Cloud Platform Microsoft Azure Mongo Atlas Apache cPanel WHM HAProxy Tomcat Touch Designer MaxMSP MaxJitter Processing Arduino RaspberryPI gnupg vim ffmpeg sox jq systemctl launchd zsh

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## 07. IRL WORKS

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Oct 2021 - <https://andreareni.com/asturias>

Video installation for Princess of Asturias Awards 2021 in collaboration with MAEID and LOREM.

[<https://www.fpa.es/en/princess-of-asturias-awards/>]

[[https://www.instagram.com/lorem\\_\\_\\_\\_/](https://www.instagram.com/lorem____/)]

[Princess of Asturias Awards - Oviedo, Spain]

May 2021 - <https://andreareni.com/venice-biennale>

Video installation for MAEID project presented at the Venice Biennale of Architecture in collaboration with LOREM.

[<https://www.labiennale.org/it/architettura/2021>]

[[https://www.instagram.com/lorem\\_\\_\\_\\_/](https://www.instagram.com/lorem____/)]

[Venice Biennale 2021 - Venice, Italy]

Jul 2020 - <https://andreareni.com/psycotropic-topologies>

Lecturer at Architectural Association School of Architecture for the Psycotropic Topologies summer course.

[<https://bit.ly/3kCy3yP>] [<https://www.aaschool.ac.uk/>]

[AA Summer school - Melbourne, Australia]

Sep 2019 - <https://andreareni.com/eye-of-the-other>

Audio video installation with a machine learning neural network that generates nectar feeding bat echolocations when are pollinating flowers.

[<https://bit.ly/3q44Yzh>] [<https://bit.ly/3wg8eJ1>] [<https://bit.ly/3nUiPFR>]

[Ars Electrónica - Linz, Austria]

[Ouvert: Phytophilie Chlorophobie Savoirs Situés - Bourges, France]

[Touch me Festival 2020 - Zagreb, Croatia]

Jul 2019 - <https://andreareni.com/movimento>

As Nuova Astrazione - Audio video and live painting concert in collaboration with Domenico Romeo and Alessandro Adriani.

[25 07 19 - Isola di Ortigia - Ortigia Sound System Festival]

[23 08 19 - Palmi - La Varia di Palmi]

[05 10 19 - Roma - Errore Digitale - Manifesto delle Visioni Parallele]

Mar 2019 - <https://andreareni.com/virtua-posse>

Augmented reality exhibition for Virtua Posse show GET REKT and a demo scripting video for Форманта at RAF25.

[<https://vimeo.com/338227966>] [<https://vimeo.com/338228434>]

[Saint Petersburg FFTN - RAF25]

Nov 2018 - <https://andreareni.com/nzena>

Interactive audio installation for Nemozena's project Aglow.

[Dubai design week - United Arab Emirates]

Nov 2018 - <https://andreareni.com/dorr>

Audio Video installation in collaboration with Martina Corà and Carlotta Menozzi - SIG NUM for MACAO. [<https://vimeo.com/336628166>]

[Milano Macao]

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## 07. IRL WORKS

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Aug 2018 - <https://andreareni.com/nuova-astrazione>  
Live visual for Berlin Atonal Festival in collaboration with Jonathan Castro - [jonathancastro.pe](http://jonathancastro.pe) - and Surogaat - [surogaat.com](http://surogaat.com) - for Alessandro Adriani's concert. [<https://vimeo.com/338076740>]  
[Berlin Kraftwerk]

Aug 2018 - <https://andreareni.com/nether>  
Visual effect for Gianluca Lonigro - [gianlucalonigro.net](http://gianlucalonigro.net) - typeface video exhibited at the event Cruel Letter. [<https://vimeo.com/291732283>]  
[Saint Petersburg Mosaic]

May 2018 - <https://andreareni.com/zephir>  
Exhibit of the digital synthesizer ZEPHIR for the Off Print Art Publishing Fair - giung.la Collective Stand.  
[London Tate Modern Gallery]

Jun 2017 - <https://andreareni.com/cave-22>  
Audio visual interactive installation for the Mogadiscio Ensemble concert. [<https://vimeo.com/234505045>]  
[Milan Nowhere Gallery]

Feb 2014 - <https://andreareni.com/vetro>  
Audio installation for Alice Pedroletti's exhibition "Frigido".  
[Milan Frigoriferi Milanesi]

Nov 2013 - <https://andreareni.com/manymany>  
Project Manymany was published at "The Wrong - New Digital Art Biennale", pavilion Homeostasislab.  
[<https://thewrong.org>]

## 06. ADDITIONAL INFORMATION

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