

# Davide Taviani

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## Experience

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### Netxjournal

LEAD DEVELOPER

Remote

Sep 2019 - current

- Full-stack development using Clojure/Clojurescript
- DevOps work using Hashicorp Suite
- Provisioning and management of infrastructure using Terraform on AWS/GCE/Azure

### Gaiwan

SENIOR CLOJURE DEVELOPER (CONTRACT)

Remote

Jul 2019 - Sep 2020

- Writing of training material
- Coaching

### Functional Works

SENIOR CLOJURE DEVELOPER (CONTRACT)

Remote

Feb 2019 - Jun 2019

- Developed Full-stack using Clojure/Clojurescript, Re-frame, GraphQL
- Developed a GitHub bot to keep repositories synchronized across organizations

### Studyflow

SENIOR CLOJURE DEVELOPER (CONTRACT)

Remote

June 2018 - current

- Maintenance of Clojure / Clojurescript application
- Maintenance of self-hosted infrastructure on bare-metal

### Synple

LEAD DATA ENGINEER

Amsterdam, The Netherlands

Oct 2017 - May 2018

- Designed and implemented the Data Pipeline using Clojure and Kafka, along with PostgreSQL and Metabase
- Deployed the data pipeline on AWS using Ansible/Packer and CloudFormation
- Managed a small team of Data Scientists

### Studyflow

FULL STACK SOFTWARE DEVELOPER

Amsterdam, The Netherlands

May 2014 - May 2017

- SPA development using Reagent (React) and Re-frame
- Developed an Event-Sourcing/CQRS library in Clojure: *rill-event-sourcing*
- Designed and implemented the infrastructure on bare metal with Ansible
- Developed a Rails-based authoring & publishing application
- Managed a small team of developers and participated in as tech-lead in strategic decisions

### ASML

METROLOGY DESIGN ENGINEER

Eindhoven, The Netherlands

Nov 2013 - May 2014

- Implemented software for the metrology department of EUV lithography machines NXE:3300 and NXE:3350B

## Education

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### Universiteit Utrecht

MSC. IN MATHEMATICAL SCIENCES

Utrecht, The Netherlands

Sep 2011 - Oct 2013

- Specialization: Scientific Computing
- Master thesis: *Iterative sparse matrix partitioning*, under the supervision of Prof. dr. Rob H. Bisseling (Parallel Computing)

### Università degli Studi di Ferrara

BS IN MATHEMATICS

Ferrara, Italy

Sep 2008 - Jul 2011

- Final grade: 110/110 cum Laude
- Bachelor thesis: *Total Variation image denoising from Poisson data: Split Bregman methods and Alternating Extragradient methods* under the supervision of Dr. Prof. Valeria Ruggiero (Numerical Analysis)

### Coursera

DEEP LEARNING SPECIALIZATION

Sep 2017 - Dec 2017

- **Courses completed:** Machine Learning, Neural Networks and Deep Learning, Improving Deep Learning Networks, Structure Machine Learning Projects, Convolutional Neural Networks

## Skills

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- Development** Clojure, Clojurescript, C/C++, Ruby (Rails and Sinatra), Python, Shell scripting  
React, CQRS, Event Sourcing, Kafka, PostgreSQL, Redis
- DevOps** Linux System Administration, Ansible, AWS CloudFormation, Docker, HashiCorp Suite (Terraform, Consul, Vault, Nomad, Packer),  
Gitlab CI/CD configuration & administration, bare-metal
- Languages** Italian, English, Dutch (basic level), Greek (basic level)

## Extracurricular Activity

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### Wikipedia

ADMINISTRATOR & CONTRIBUTOR

Sep. 2006 - Jan 2017

- 25000+ edits on Wikipedia and Wikimedia projects in various languages

### Various publications and websites

PHOTOGRAPHER

- Worked professionally for the summer of 2005
- Pictures featured in national magazines and various websites

## Honors & Awards

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2008 **Roberto Ruffilli Prize**, for graduating with the highest mark

*Cesena, Italy*

## Presentations

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### ClojureD 2020

*Berlin, Germany*

SPEAKER

Feb 2020

- Life in parens: simulating an ecosystem with Clojure
- Slides: <https://tinyurl.com/life-in-parens>

### Dutch Clojure Meetup - September 2015

*Amsterdam, The Netherlands*

SPEAKER

Sep. 2015

- **Event Sourcing at Studyflow / 2:** Discussion of our Event Sourcing framework, with focus on the advantages and drawbacks of having a in-memory read-model
- Slides: <https://speakerdeck.com/helios/2>

### Dutch Clojure Meetup - April 2017

*Amsterdam, The Netherlands*

SPEAKER

Apr. 2017

- **Event Sourcing, CQRS and scalability - a status update:** Discussion of the challenges in scalability of our Event Sourcing framework after three years in production with half a billion events, with particular attention to the different strategies in scaling reads and writes.
- Slides: <https://speakerdeck.com/helios/event-sourcing-cQRS-and-scalability-a-status-update>

## Interests

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**Dungeons & Dragons, 3d printing, synthesizers and board games**