

# Yannis Valentin Schmutz

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LinkedIn | GitHub

## Skills

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I am an independent, analytical thinker with strong communication skills, who systematically tackles complex tasks and effectively engages with peers.

- Programming (Python, JavaScript, Java)
- Software-Architecture, Design & Testing
- Technical Documentation and Writing
- Machine/Deep Learning & Computer Vision
- Data Cleaning, Processing, Visualising & Analysing
- Linux, GIT, Docker, & DevOps
- Communicating and Presenting
- German, English

## Education

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- MS in Engineering - Profile Data Science**, Bern University of Applied Sciences Feb 2022 – Jan 2024
- *Master thesis*: Physically-Informed Video Inpainting: A Deep Learning Approach for Historical Weather Reconstruction
- BS in Computer Science (part time)**, Bern University of Applied Sciences Sep 2017 – Jan 2022
- *Bachelor thesis*: Automated machine learning pipeline for real-time phishing detection.
- Federal Vocational Baccalaureate (part time)**, gibb vocational school Bern Aug 2015 – Jul 2017
- Apprenticeship as an electronics technician EFZ**, RUAG Defence AG Aug 2011 – Jul 2015

## Experience

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- Research Fellow → Scientific Collaborator**, Bern University of Applied Sciences Since Feb 2022
- Collaboration on research in the field of generative AI
  - Establishment and maintenance of the lab's on-premise GPU infrastructure
  - Consulting a psychiatry start-up on the use of recommendation systems and the necessary data
- Software Architect**, Netfire GmbH May 2020 – Jan 2022
- Design and implementation of a data pipeline for processing sensor data
  - Analysis, visualisation and cleaning of sleep data
  - Requirements engineering and close cooperation with stakeholders
- Junior System Engineer → Software Engineer**, RUAG Defence AG Aug 2015 – Apr 2020
- Successfully developed communication software with exceptional standards for quality and stability
  - Implementation of a multithreading system test to verify correct channeling of audio signals in radio devices
  - Development of a web application for the visual analysis of audio signals
  - Collaboration in the setup and maintenance of the on-premise Linux server environment

## Publications

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- Physically-Informed Video Inpainting: A Deep Learning Approach for Historical Weather Reconstruction** In proceeding
- Yannis Valentin Schmutz, Noemi Imfeld, Stefan Brönnimann, Erik Graf  
10.22541/essoar.171707818.82890231/v1

## References

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- Prof. Dr. Erik Graf**: Head of Data Engineering program | +41 32 321 63 26 | erik.graf@bfh.ch
- Prof. Dr. Stefan Brönnimann**: Unit Leader Climatology | +41 31 684 88 85 | stefan.broennimann@giub.unibe.ch