
Curriculum Vitae

Personal

Name	Nitish Patkar
Academic Titles	M.Sc. Dr.
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Website	https://nitishpatkar.com/
Date of Birth	21.04.1989
Nationality	Indian (Swiss Permanent Residence)
Marital Status	Married
Languages	German: Business fluent English: Business fluent Marathi: Mother tongue Hindi: fluent



Education

2018 - 2022	Ph.D. (Doctor of Philosophy) University of Bern, Switzerland Research topics: requirements engineering, domain modelling, collaborative agile development
2014 – 2018	M.Sc. (Master of Science) University of Paderborn, Germany Focus points: Information and Database Systems
2009 – 2012	B.E. (Bachelor of Engineering) University of Mumbai, India

Work Experience

2022 – Present	University of Applied Sciences and Arts North-western Switzerland (FHNW), as a Research Associate Experience spans applied research project acquisition and management, teaching, mentoring, and supervision.
2018 -2022	University of Bern, as a Research Assistant Organized, supervised, and managed software engineering project for ~200 students over four years.
2017 – 2018	ActiDo GmbH, Paderborn, as a Web developer Built a proof-of-concept for a web application using React. The main tasks involved implementing the provided designs into HTML and CSS, as well as writing the frontend logic with React.
2016 – 2018	University of Paderborn, as a Research Assistant Collaborated with clients at Volksbank and the university sports department to understand their requirements for a sports application. Developed a single-page application using Angular and the Django Rest Framework as a proof of concept.
2012 – 2014	Infosys Ltd., India, as a Systems Engineer Worked on the Product Lifecycle Management (PLM) platform, Windchill. Worked on building a web application for a US-based client, Cox Communications.

Applied Research Projects

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| 2005 | <ul style="list-style-type: none">▪ AI-Assistant for faster Software Project Planning in SMBs: Approaching a human-centric feedback workflow (129.398 INNO-ICT Principal Investigator ~15'000CHF)▪ Multi-model forecasting engine for PV production and load in active distribution grids (121.582 IP-EE Principal Investigator ~43'000CHF)▪ Efficient Design of Medical Implants: feasibility of a Scalable Generic Platform for Electrical Simulation (76033.1 INNO-ENG Collaborator)▪ Digital tools to increase medication adherence among older adults (75194.1 INNO-ICT Collaborator)▪ Sustainable Mobility: Combining private car sharing und public transportation (127.705 INNO-SBM Collaborator)▪ Züri teilt (Innovation Booster Future Urban Society 1295 Collaborator)▪ Digitale Produktempfehlung ohne Expertenwissen (10.01438.04.2 Collaborator) |
| 2004 | <ul style="list-style-type: none">▪ Watersense – a Cloud Based Data Analysis Platform (71089.1 INNO-EE Collaborator)▪ Utilization of Web3 technology for optimization of Telecommunication services (68580.1 INNO-ICT Collaborator)▪ EquiTech: KI-gesteuerte Innovationen in der Pferdebranche (70028.1 INNO-ICT Collaborator)▪ Enablerr – das ERP der nächsten Generation (44824.1 IP-ICT Collaborator)▪ Innovative Plattform zur Bündelung von Bestellungen und Förderung des lokalen Bio-Marktes durch intuitives Pooling (74294.1 INNO-ICT Collaborator)▪ HackHub: Revolutionizing Data Exchange in Hackathons (71532.1 INNO-ICT Collaborator) |
| 2022 - 2023 | <ul style="list-style-type: none">▪ Clean Energy EXchange (CEEX) - Development of AI based Trading Advisor to operate Virtual Topology and Dynamic Grid Prices (49976.1 IP-EE Collaborator)▪ Marktplatz für individuell gewachsenes Obst und Gemüse (10.01495.03.1 Collaborator) |

Teaching Activities

Mar. 2022 - Present

University of Applied Sciences and Arts North-western Switzerland (FHNW), as a Research associate

- iPro- Individual Software Project (FS26).
- Software Engineering (HS25).
- Requirements Engineering (FS23, HS23, FS22).
- Web Technologies (HS25, FS25).
- Certificate of Advanced Studies (CAS) in Digitalization and Sustainability (FS23).
- Projekt 3 and 4 Informatik, teaching as an agile coach in a year-long industry project (FS24, HS24, FS23, HS23).
- Projekt 1 and 2 Informatik, teaching as a team coach in a year-long internal project focused on the Rational Unified Process (RUP) (HS22, FS22).
- Supervised about 18 bachelor's and master's theses, and additionally about 22 student applied research projects guiding students through the process of problem identification, solution proposal, validation, and reporting.

Mar. 2018 – Feb. 2022

University of Bern, as a Research Assistant

- Led and supervised semester-long software engineering projects for ~200 students over four years, guiding teams in building full-stack web applications from scratch.
- Independent instructor for the Seminar in Software Engineering (BSc/MSc), covering software engineering research and prototypical tool development.
- Supervised a bachelor's and 2 master's theses, guiding students through problem identification, solution design, and validation.

Community Work

Reviewer/PC member

- International Conference on Agile Software Development (XP), 2026
- Software Engineering Conference (SE-SRC), 2026
- The International ICT4S Conference (2026, 2024)
- ACM Transactions on Software Engineering and Methodology (TOSEM) Journal, 2025
- Science of Computer Programming Journal (2024, 2023)
- The IEEE International Requirements Engineering (RE) conference (2026, 2025, 2024, 2023, 2022)
- International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ) (2026, 2025, 2024, 2023, 2022)
- Empirical Software Engineering Journal (EMSE), 2023
- Information and Software Technology Journal (IST), 2023
- The IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER), 2020 (co-reviewer)

Miscellaneous

- The International ICT4S conference, 2026 (Student Volunteer Co-Chair)
- The 9th and 10th International Workshop on Crowd-Based Requirements Engineering (co-organizer 2025, 2026)
- 26th International Conference on Agile Software Development (local chair)
- Background Organisation REFSQ (2025, 2026, 2027)
- Best Reviewer Award REFSQ 2025
- Associate member of the International Requirements Engineering Board (IREB) and lead the survey team of the Special Interest Group on Digital Sustainability