



Mohammad Emad Hammami

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Nationality: Norwegian

[View Full Portfolio](#)

Professional Summary

Experienced Software Engineer & Scrum Master with 5 years of expertise in digital transformation, agile methodologies, software architecture, and AI-driven research. Demonstrated leadership in designing scalable systems, guiding agile adoption, and conducting academic research in digital transformation and federated learning. Passionate about innovation, team coaching, and building inclusive, data-driven solutions.

Key Skills

Management:

- ❖ Engineering Management
- ❖ IT Management
- ❖ Agile Methodologies (Scrum, Kanban, Lean, SAFe)
- ❖ Project Management (Waterfall, Spotify Model)
- ❖ GDPR Compliance
- ❖ Atlassian Jira and Confluence.

Software Development and Analysis:

- ❖ SDLC
- ❖ CRM (Dynamics 365)
- ❖ Business & Partner Analysis
- ❖ Power BI
- ❖ DevOps
- ❖ Technical Troubleshooting

Security:

- ❖ Information Security
- ❖ Software and Network Security

Data Management and Cloud Computing:

- ❖ Data Science & Engineering (Esper, Data Mesh)
- ❖ Databases (MySQL, Hadoop, MongoDB)
- ❖ Microsoft Azure, Cloud

Certificates

Google:

- Agile Project Management.
- Foundations of Project Management.
- Project Initiation: Starting a Successful Project.
- Applying Project Management in the Real-World.
- Project Planning: Putting It All Together.

Project Management Institute (PMI) and NASBA:

- Project Management Certificates in Foundations, Ethics, Requirements, Schedules, Budgets, Teams, Communication, and Risk.
- Managing Project Stakeholders.
- Collaborating with Microsoft 365.
- Managing Projects with Microsoft 365.
- Optimizing Your Work with Microsoft 365.
- Project Management Professional Certificate.

People Management:

- Managing and Leading Developers.
- Coaching Skills for Leaders and Managers.
- Effective Technical Communication.
- Building Trust.
- The Manager's Guide to Difficult Conversations.
- Inclusive Tech: Conducting Humane Code Reviews.
- Agile Software Development: Creating an Agile Culture.
- Succeeding as a First-Time Tech Manager.
- Moving from Developer to Engineering Manager.

Work Experience

Software engineer / Scrum master

DNB Bank /Oslo

7.2021-present.

- Designed integration tests for the Sbanken merger using Octane.
- Improved Agile delivery through sprint planning and backlog management.
- Resolved incidents and optimized IT infrastructure via ServiceNow.
- Kept stakeholders informed and aligned with project milestones.

Languages

English: ★ ★ ★ ★ ★

Norwegian: ★ ★ ★ ★ ★

Arabic: ★ ★ ★ ★ ★

Interests

I have a keen interest in exploring diverse cultures, languages, and customs. Volunteering is a significant part of my free time, reflecting my dedication to community engagement and self-improvement.

References

Supplied on request.

Bachelor project / Scrum master

Telia /Oslo

08.2020-05.2021

- Facilitated the development team using Scrum, ensuring project alignment and collaboration.
- Contributed significantly to development tasks, utilizing Laravel and Onfido to meet project requirements.

Founder and Director

Femi / Oslo

03.2021-12.2023

- Founded an early-stage initiative focused on women's safety and community building.
- Developed the concept and explored stakeholder collaboration and funding opportunities.
- The project was not developed further due to budget constraints.

Education

**Note: Multiple degrees were pursued concurrently through parallel study arrangements.*

M.Sc. Digitalization and Management

University of South-Eastern Norway | 2024 – Present | Hønefoss, Norway

- Focus: Intersection of digital transformation, organizational leadership, and strategic management.
- Expected to complete 90 ECTS by the end of the current semester
Remaining requirement: 30 ECTS master's thesis

M.Sc. Informatics: Programming and Systems Architecture

University of Oslo (UiO) | **Graduated 2023** | Oslo, Norway | Grade: A

- Specialization: Software Engineering (Management) and Machine Learning/AI.
- Master's Thesis: "*Federated and Tiny Machine Learning for Edge Computing in Industrial IoT*"
- Key Contribution: Developed Adaptive Mean Absolute Deviation (AdMAD) Pruning for communication-efficient Federated Learning.

B.Eng. Software Engineering

OsloMet – Oslo Metropolitan University | **Graduated 2026** | Oslo, Norway | Grade: B

- Focus: Engineering principles, software lifecycle management, and scalable systems design.

B.Sc. Informatics: Programming and Systems Architecture

University of Oslo (UiO) | **Graduated 2025** | Oslo, Norway

- Core Competencies: Algorithms, data structures, and advanced software architecture.

B.Sc. Information Technology

OsloMet – Oslo Metropolitan University | **Graduated 2021** | Oslo, Norway | Grade: B

- Focus: Applied IT systems, network infrastructure, and system administration.

IT Engineering Studies (NOKUT-approved)

University of Kalamoon | 2010 – 2012 | Deir Atiyah, Syria

- Foundation: Core engineering mathematics, hardware-software integration, and system design.

Publications & Research

- **"uAMBIT: Byte-Budgeted Update Compression with Error-Feedback for Federated Learning"**
Accepted as Full Paper for IEEE DCROSS-IoT 2026.
Distinction: Received 3/4 reviewer ratings in the reviewer's top-20% category..
- **"AMBIT: An Efficient Pruning Technique in Federated Learning for Edge Computing Systems"**
Published in the 8th IEEE International Conference on Fog and Edge Computing (ICFEC), 2024.
([Mohammad Emad Mohammad Hammami \(researchgate.net\)](#)).
- **"Adaptive Mean Absolute Deviation (AdMAD) Pruning in Federated Learning A Hybrid Approach for Efficient Data Transmission and Model Performance"**
Published in DUO, University of Oslo, 2023 ([duo.uio.no](#) | DUO).

Research Projects

- **DNB's Digital Transformation Journey: Advancing Towards Digital Competitiveness**
University of Oslo, 2023

Conducted in-depth research on DNB's digital transformation strategies, focusing on the implementation of new technologies and organizational restructuring to enhance digital competitiveness.
- **Factors Influencing Digital Strategy at DNB**
University of Oslo, 2023

Co-authored a study analyzing the key factors that influence digital strategy development and implementation at DNB. The research provided insights into strategic planning, change management, and digital innovation within the banking sector.
- **Software Process Improvement (SPI) Plan**
University of Oslo, 2023

Developed a comprehensive SPI plan for DNB, emphasizing Agile methodologies, process optimization, and the integration of modern software development practices to enhance efficiency and product quality.
- **Handbook of Scrum Methodology**
DNB Bank, 2021

Authored a detailed handbook on Scrum methodology, outlining best practices, common challenges, and strategies for effective implementation in software development projects.

Volunteer work

- **Ambassador**
04.2022- 05.2023 **Nobel Peace Center / Oslo**

Represented the center at the University of Oslo, linking professors and students, showcasing networking and coordination skills.
 - **IT Manager**
07.2017- 01.2022 **UN-Students / Oslo**

Managed the website, member registration, and sponsor interactions, reflecting technical and organizational capabilities.
 - **Social worker/ team leader**
11.2013-05.2015 **DRC, UN / Lebanon**

Worked as Team leader in protection of women and children, showing leadership in sensitive social initiatives.
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