

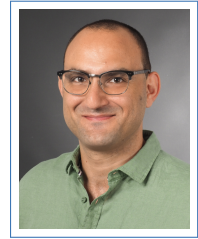
# Nasr Kasrin (Dr.)

96050 Bamberg, Germany

📞 +49 176 36642113

✉️ [n42r.me@gmail.com](mailto:n42r.me@gmail.com)

🌐 [n42r.github.io](https://n42r.github.io)



Software architect with a critical eye and open mind. I led successful projects in various domains (data management, social networks, mobile apps & games, robotics & AI) and teams sizes (2-5 persons), from B2C settings to publicly projects with several million in funds. I shine on the intersection of engineering and product/people/cross-functional leadership [[n42r.github.io](https://n42r.github.io)]

## Projects

2023 – 2024 **Muze AI**, *Open Source Software*, Independent Project

- Conceived and built the first AI/LLM music recommendation tool that does not use Spotify's metadata [[github.com/n42r/muze-ai](https://github.com/n42r/muze-ai)]

2022 – 2023 **Guestrrday**, *Open Source Software*, Independent Project

- Developed an open source music tagging tool that successfully processed over 20,000 items [[github.com/n42r/guestrrday](https://github.com/n42r/guestrrday)]

2019 – 2023 **The Basin Network**, *Architectural Model/Invention*, Doctoral Project

- Invented a novel architectural pattern for data cataloging that is more transparent and detailed than state-of-the-art approaches such as data mesh and data lake.
- Balanced the architecture for data exchange, interoperability, integration, collaboration, standards development, and managing data as an asset.
- Defended the project and was awarded a PhD with grade of *cum laude* (with praise).
- Published 2 papers in international conferences.

2015 – 2019 **SIMUTOOL**, *SaaS (B2B)*, EU-Funded Manufacturing Project

- Led a team of four to develop a data lake SaaS for a 8-company EU project which enabled close data-driven cooperation and coupling between participating companies [[github.com/simutool](https://github.com/simutool)].
- Communicated & collaborated with domain experts to identify requirements.
- Designed a scalable architecture as well as interfaces, APIs, and data formats.
- Developed software and led developers using agile methods to build smoothly integrated components.

2012 – 2014 **Tawla**, *Game/Mobile (B2C)*, Startup (Employment)

- Attained improved App ratings (from 3 to 4.5/5 stars) by building a new Artificial Intelligence (AI) player for the board game [[n42r.github.io/tw](https://n42r.github.io/tw)].
- Conceived and implemented a complex random number generator for the dice algorithm leading the game to receive good reviews due to less predictable game flow.

- 2012 – 2014 **Greetings Studio, Social Network/Mobile (B2C), Startup (Employment)**
- Supervised the development of a social network which enabled users to create E-Cards and images and share them with others [[n42r.github.io/gs](https://n42r.github.io/greetings-studio/)].
  - Trimmed turn-over time between user feedback and technical/product iterations by organizing a 10 minute weekly stand-up between marketing and technical teams.
  - Scaled and improved the architecture of the SaaS for maintainability and performance.

---

## Employment

- 2015 – 2020 **Research Associate (Architect | Team Lead), University of Bamberg, Germany**
- Led a team to develop a data lake SaaS for a 3.5 million Euro EU manufacturing project, which led to improved data discovery, collaboration, and turn-over time [[github.com/simutool](https://github.com/simutool)].
  - Strengthened relationships with the 10+ end-users (highly qualified professionals with PhDs) which led to better understanding of the domain and their requirements.
  - Designed systems for ease of scalability, integration, and maintainability.
  - Organized the project, planned iterations and milestones, and supervised developers with agile practices to drive continuous growth.
- 2011 – 2014 **Team Leader | Software Architect | R&D Engineer, TayaIT, Cairo, Egypt**
- Led agile technical teams ranging in size from 2-4 on two long-term social media / mobile products resulting in continuously increasing app rankings and user base.
  - Strengthened cross-functional collaboration between technical, business, and UI/UX leading to 30% shorter cycle times, closer cooperation, and increased productivity.
  - Researched and incorporated various state-of-the-art technologies.

---

## Skills

- Hard Skills System design, coaching, technical product management, agile/lean, prototyping, research, R&D, meta-data / data management, domain modeling, knowledge management, change management, data integration, data cataloging.
- Databases MongoDB (NoSQL), Neo4j (Graph DB), SQL, Google Firebase Cloud, RDF
- Development Python, Docker (multi-container), Linux CLI, git, UML
- Soft Skills Critical thinking, empathy, cross-functional collaboration, teamwork, leadership, (technical) communication, problem solving, public speaking, intercultural fluency
- Past Skills Lisp, C++, Java, PIC microcontroller programming (embedded)

---

## Education

- 2023 **PhD. (Dr. rer. nat.), Information Systems & Applied Computer Science, Otto-Friedrich-Universität Bamberg, Bamberg, Germany**
- 2010 **MSc., Computer Science & Engineering, The German University in Cairo, Egypt**
- 2008 **BSc., Computer Science & Engineering, The German University in Cairo, Egypt**

---

## Publications

Full list: [scholar.google.com/citations?user=JgS4-1cAAAAJ](https://scholar.google.com/citations?user=JgS4-1cAAAAJ)

---

## Languages

Arabic	Mother Tongue
English	Fluent
German	Good understanding, Basic Speaking (B1, Telc Certificate)