

# DR. NABILA ABDESSAIED

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## SOFTWARE ENGINEER

*Extensive software development and engineering experience in dynamic and innovative environments. Expertise in designing, developing and deploying software solutions that meet high performance standards and customer satisfaction. Strong background in various programming languages, software development methodologies, cloud technologies, and LLMs.*

## PROFESSIONAL EXPERIENCES

### **SOFTWARE ENGINEER, Jan. 2025 - present, Meta, London, United Kingdom**

- Integrated scam measurement policies for Meta Verified users on Facebook and Instagram, significantly reducing scam prevalence and strengthening users safety.
- Leveraged LLM-driven signals to enhance scam measurement policies, increasing precision and recall while minimising manual intervention.
- Introduced a backend feature for Facebook Messenger that detects frauds at the start of conversations, enabling integrity teams to identify and address abuse earlier.

### **SOFTWARE ENGINEER, Jan. 2022 - Sept. 2024, Microsoft, London, United Kingdom**

- Led the integration of an end-to-end 5G core solution test framework to validate the Subscriber Data Management solution. Critical to the early detection and resolution of defects, thereby improving the overall quality of the solution.
- Owned features that improved the availability and scalability of the Mobile Voicemail solution by leveraging Azure technologies such as On-Demand Capacity Reservation and VM Scale Sets.
- Enabled live configuration of Mobile Voicemail deployment, reducing operator time per configuration change from 25 minutes to 5 minutes.
- Proposed and championed CI enhancements that automated manual workflows, streamlining deployment and testing processes with a time saving of 30 minutes per deployment.

### **SOFTWARE ENGINEER, Sept. 2016 - Dec. 2021, Infineon Technologies AG, Munich, Germany**

- Designed and implemented a Groovy shared library that encapsulates essential functionality for embedded software pipelines in Jenkins. This library was adopted by software teams at Infineon, streamlining their development processes.
- Co-led Infineon's CI community by managing meetings, moderating discussions and coordinating hackathons.
- Increased developer productivity by providing a standard embedded software development methodology consisting of workflows, integrated tools, best practices, training, support and knowledge sharing.
- Owned Infineon's C coding guidelines based on MISRA C:2012 and ISO 26262.
- Developed and unit tested embedded software for Infineon products: Alternator regulator IC, Aurix and XMC microcontroller boards for Arduino.

### **R&D ENGINEER, Nov. 2013 - July 2016, Centre for Artificial Intelligence (DFKI), Bremen, Germany**

- Automated translation of natural language assertions into System Verilog assertions using NLP tools.
- Developed a requirements quality assessment method using NLP and ML techniques.
- Authored a book chapter and presented two international conference papers in this area.

### **R&D ENGINEER, Institute of Computer Science at University of Bremen, Bremen, Germany**

### **SOFTWARE ENGINEER, EREAIT: Italian company, Tunis, Tunisia**

## EDUCATION

### **PhD in Computer Science, University of Bremen, Germany 2013 - 2015**

Topic: Reversible logic and quantum computing.

### **Master's in Computer Science, National Engineering School of Sousse, Tunisia 2007 - 2009**

Topic: Micro-electronic embedded systems.

### **Dipl. Ing. in Computer Science, Tunis University of Sciences, Tunisia 2002 - 2007**

Topic: Networks and distributed systems.

## LICENSES AND CERTIFICATIONS

- Prompt engineering, Aug. 2025
- Leading as an Expert, Dec. 2021
- Moving from developer to Eng. Manager, LinkedIn Learning, June 2021
- Data structures and algorithms, University of California - Coursera, Nov., 2020
- Software design and architecture, University of Alberta - Coursera, Aug. 2020
- Project Management for Project Team Members, Aug. 2020
- Technical Documentation Basic Training, Nov. 2019
- Functional safety certificate in ISO 26262, TUV SUD, Oct. 2018
- Insights Discovery – personal and team effectiveness, Sept. 2018

## SKILLS

- Docker, Jenkins, GitLab, Azure DevOps, Microsoft Azure, Terraform, Kubernetes, Helm, Grafana.
- Azure Repos, Bit- bucket, Git, SVN, Gerrit,
- C/C++, Python, Groovy, C#, Java, Shell, PowerShell, Make, CMake, Conan.
- Ceedling, Unity, PyTest, Gcov, Python coverage.
- VSCode, Eclipse, IntelliJ, PyCharm.
- ISO26262 guidelines, Misra C/C++, PC-Lint, Polyspace, SonarQube.
- Oracle, MySQL, SQL Server.
- Jira, Azure Board, Scrum, Kanban.
- TeX/LaTeX, Microsoft Office, Copilot, OpenAI.

## VOLUNTEER EXPERIENCE

### **TunisAid, Nov.r 2018 - present, Munich, Germany**

Active committee member in a charity organization supporting children with disabilities in Tunisia by funding their education and healthcare needs.

### **Zahr Aljasmin school, Oct. 2017 - Feb. 2018 , Munich, Germany**

Arabic teacher for Arabic communities based in Munich.

### **Mourakiboun, Oct. 2014 - Oct. 2015, Hamburg, Germany**

Observer in a national electoral observation network organization participating in Tunisian parliamentary and presidential elections for Tunisians in Germany.

## LANGUAGE

**Arabic:** Native language

**English, French:** C2 proficient level

**German:** B2 upper intermediate level