DR. NABILA ABDESSAIED

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London, UK

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 April 2025 - present, Meta, London, United Kingdom

- Facebook/Instagram platforms integrity: Putting into place and improving scam measurement approaches for meta verified accounts based on LLMs and data analysis.

SOFTWARE ENGINEER January 2022 - September 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 September 2016 - December 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 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 November 2013 - July 2016, German Research 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, Germany

SOFTWARE ENGINEER, EREAIT: Italian company, based in 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, August 2025
- Leading as an Expert, December 2021
- Moving from developer to Eng. Manager, LinkedIn Learning, June 2021
- Data structures and algorithms, University of California - Coursera, November 2020
- Software design and architecture, University of Alberta - Coursera, August 2020
- Project Management for Project Team Members, August 2020
- Technical Documentation Basic Training, November 2019
- Functional safety certificate in ISO 26262, TUV SUD,October 2018
- Insights Discovery – personal and team effectiveness, September 2018

SKILLS

- Prompt engineering and LLMs.
- Docker, Jenkins, GitLab, Azure DevOps Services, 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, Munich, Germany
November 2018 - present Active committee member in a charity organization supporting children with disabilities in Tunisia by funding their education and healthcare needs.

Zahr Aljasmin school, Munich, Germany
October 2017 - February 2018 Arabic teacher for Arabic communities based in Munich.

Mourakiboun, Tunis, Tunisia
October 2014 - October 2015 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