Curriculum Vitae (Aljasem)

Personal Information

Name	**Khaldoun Aljasem**
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Email	khaldoun.aljasem@gmail.com
Date and Place of Birth	01.01.1992 in Hama, Syria
Marital Status	Married
Nationality	German, Syrian
Languages	Arabic (native)
	English (fluent, spoken and written)
	German (excellent, spoken and written)

Professional Summary / Profile

Experienced software engineer with expertise in data engineering and embedded software development. Proficient in C++, VxWorks, Python, MySQL, and enterprise architecture. Skilled in OOP, real-time programming, and industrial fieldbuses (SERCOS3). Familiar with CoDeSys V3 and an expert in AWS services. I have developed a strong foundation in tools like PyCharm, WindRiver Workbench, Visual Studio, QtCreator, and C++ Builder. Proficient in utilizing code analysis tools such as Klockwork and SonarQube. Well-versed in project management tools including Jira and Confluence, as well as version control systems like GIT, Subversion, and Gerrit. Experienced with virtualization tools like VMware and CI/CD platforms such as Jenkins, BuildBot, and Apache Airflow. Additionally, I specialize in data visualization and dashboarding through Apache Superset. Adaptable to agile development methodologies.

Professional Experience

01/2024 - Present

Lead Data Engineer (Full-time)
Hella Gutmann Solutions GmbH, Ihringen, Germany
- Leading the technical design and strategic vision of a cloud-based data platform (AWS).
- Architected robust and scalable data pipelines.
- Defining and implementing data governance and quality standards.
- Leading and mentoring a team of data engineers.
- Selecting and introducing modern tools (e.g., OpenSearch, Terraform, Glue, Lambda, S3, SQS).
- Collaborating closely with business units to align data strategies with business requirements.
- Project ownership, including prioritization, progress tracking, and risk management.
- Acting as a liaison between technical teams and stakeholders.

04/2022 – 12/2023	Data Engineer (Full-time) Hella Gutmann Solutions GmbH, Ihringen, Germany • Designed and developed a stable and scalable cloud data platform. • Developed efficient ETL processes for integrating and analyzing operational data. • Used AWS services (OpenSearch, CloudFormation, Glue, DynamoDB, S3, Lambda) and programming languages such as C++, Python, and C#. • Ensured high data quality and structured access. • Worked in an agile product environment with a focus on continuous improvement.
06/2019 – 03/2022	Software Development Engineer (Full-time) Hella Gutmann Solutions GmbH, Ihringen, Germany • Integrated databases (MySQL) and backend logic for workshop solutions. • System integration and test automation.
11/2017 – 05/2019	Firmware Developer for Motion with Sercos III (Full-time) Schneider Electric GmbH, Marktheidenfeld, Germany • C++ Developer • PLC Developer using CoDeSyS V3 • Test automation
03/2017 – 10/2017	Software Development Engineer (Full-time) Valeo Schalter und Sensoren GmbH, Kronach, Germany • C++ Developer • System integration • Jenkins administrator
02/2015 – 01/2016	Trainer (Part-time) Alayman International Complex for Culture and Science, Hama, Syria • Instructor for programming languages (C++, C#, SQL Server) • Instructor for ICDL courses
02/2015 – 01/2016	Intern – Computer Science Engineer Syrian Engineers Syndicate, Hama, Syria • Assisted with software development
09/2015 – 01/2016	Trainer (Part-time) Welfare Association for Social Care, Hama, Syria • ICDL trainer in the project "Sawaed – Vocational Training and Life Skills"
09/2015 – 01/2016	Lecturer (Part-time) Technical Institute for Computer Science, University of Hama, Syria • Lectures on Programming I and II (C#)

Education

09/2009 – 12/2014	Bachelor of Computer Engineering (5-year program)
	Faculty of Computer Science, University of Aleppo, Syria
	• Specialization in Artificial Intelligence, Software Development
	• Final grade: *Good*
	• Bachelor Thesis: "Diagnosis and Treatment of Red Eye Diseases using Intelligent Algorithms"
	• Thesis grade: *Excellent*
09/2006 – 09/2009	High School Diploma – Technical-Industrial School
	Specialization: Computer Engineering, Deir ez-Zor, Syria
	• Final grade: *Excellent*

Professional Skills

1. **Programming & Scripting Languages:**
   - C++, C#, Python, Java, CoDeSyS v3, IEC 61131-3, Windows & Linux scripting
2. Cloud & Data Engineering:
   - AWS (OpenSearch, CLI, Lambda, Glue, CloudFormation, S3, SQS, SNS, DynamoDB), Terraform
   - Apache Airflow, Apache Superset.
3. Databases & Data Processing:
   - MySQL, SQL Server, Analysis Services, ETL development, data mining, data modeling, data governance & quality.
4. DevOps & CI/CD:
   - Git, SVN, Jenkins, CMake, BuildBot, Docker, Unit testing (Google Test, PyTest).
5. Embedded Systems & Real-time Applications:
   - VxWorks, Sercos III, Motion Control, RTMaps, Machine Expert
6. Tools & Development Environments:
   - Visual Studio, PyCharm, Eclipse, Qt Creator, C++ Builder, Enterprise Architect
7. Methodologies & Work Style:
   - Agile methods (Scrum, Kanban), architectural design, project management, stakeholder communication, team leadership & mentoring
8. Soft skills:
   - Leadership & mentoring
   - Problem-solving mindset
   - Communication with stakeholders
   - Team collaboration
   - Strategic and analytical thinking
   - Agile adaptability
   - Ownership and accountability