

SAID BENAÏSSA

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SUMMARY

Ph.D. software engineer with 10 years of experience in real-time control, robotics, cloud platforms, and simulation. Proficient in Java, C++ and C#, with a strong focus on developing clean and maintainable systems. Experienced in DevOps, agile methodologies, and effective cross-functional collaboration. Proven ability to deliver scalable solutions and mentor development teams.

Portfolio: saidbenaissa.com

TECHNICAL SKILLS

- **Service Management and Leadership:** ITSM, ITIL, leadership
- **Agile Methods:** Scrum, Kanban
- **Development Practices:** TDD, OOP, REST APIs
- **Architecture and Design:** SOLID principles, design patterns, microservices
- **Cloud and DevOps Platforms:** Git, Jenkins, Docker, Kubernetes, Azure, AWS, GCP
- **Testing:** JUnit 5, Mockito, GoogleTest, Postman
- **Programming Languages:** Java, C#, C++, JavaScript
- **Frameworks:** Spring, .NET, Qt, React, ROS, GraphQL
- **Databases:** PostgreSQL, MongoDB
- **Serialization:** JAXB (XML), ProtoBuf
- **Logging:** SLF4J, Logback
- **Build Tools:** Maven
- **IDEs and Editors:** IntelliJ, VSCode
- **Documentation and Design:** Confluence, UML, Mermaid, Figma

WORK EXPERIENCE

Senior Software Developer | Shearwater GeoServices | Oslo, Norway Jul 2023–Present

- Developed real-time software for marine vibrators using Java, Spring, and ProtoBuf.
- Built MV-Scope to process 20+ sensor streams using Java NIO and multithreading.
- Improved seismic sweep validation (LineQC), reducing troubleshooting time by 30%.
- Standardized CI/CD pipelines and design patterns, doubling deployment frequency.
- Mentored developers and promoted best practices across cross-functional teams.

Senior Software Developer | Vivaldi Technologies | Oslo / Reykjavik Dec 2022–Jul 2023

- Contributed to browser features using C++ (Chromium) and React.
- Implemented session restore for macOS, reducing support tickets by 20%.

Software Developer | Defigo AS | Oslo, Norway Mar 2020–Dec 2022

- Integrated FreeRTOS, LwIP, and WebSockets into real-time access control systems.
- Optimized Qt GUI, reducing bandwidth usage by 30%.
- Led Freshdesk integration in Node.js and mentored 3 junior developers.

Senior Software Developer | Pickr | Stavanger, Norway Nov 2019–Mar 2020

- Designed a control system for picking robots using C++, ROS, and PCL (100+ picks/min).
- Improved picking accuracy by 20% through 3D object detection.
- Reduced error rates by 15% through enhanced classification logic.

Software Developer | IDEMIA | Casablanca, Morocco Aug 2019–Nov 2019

- Maintained biometric authentication systems for 5M+ users.
- Implemented new authentication protocols, reducing errors by 18%.
- Improved algorithms, reducing authentication time by 35%.

Software Developer | MEGA International | Casablanca, Morocco Oct 2018–Aug 2019

- Developed risk management and compliance software for enterprise clients.
- Automated UI workflows, reducing manual work by 40%.
- Modeled governance frameworks aligned with COBIT 5.

Robotics Programmer | Hassan II University | Casablanca, Morocco Sep 2010–Dec 2018

- Researched SLAM algorithms with 10% improved navigation accuracy.
- Developed real-time navigation systems based on ROS.
- Supervised 10+ master’s students and co-authored 4 research papers.
- Presented at ICINCO 2016: Read article

EDUCATION

Ph.D. in Computer Science Hassan II University, Casablanca, Morocco	2010–2016
M.Sc. in Telecommunication Networks Cadi Ayyad University, Marrakech, Morocco	2007–2009
B.Sc. in Physics and Chemistry Cadi Ayyad University, Marrakech, Morocco	2002–2006

CERTIFICATIONS

Project Management and Agile Foundations of Project Management – Google	Aug 2021
Project Initiation: Starting a Successful Project – Google	Mar 2024 (expired)
Agile for Decision Makers – Opsgility	Dec 2019
Scrum Team Member – Scrum Institute	Feb 2019
Succeeding as a First-Time Tech Manager – LinkedIn Learning	Mar 2025

Software Development and Programming Advanced Web APIs with ASP.NET Core in .NET 6 – LinkedIn Learning	Mar 2025
Advanced Java Programming – LinkedIn Learning	Jul 2019
Discovering Hibernate and Spring Frameworks – LinkedIn Learning	Feb 2019
Mastering Data Structures & Algorithms using C and C++ – Udemy	Jan 2021
API and Web Service Introduction – Udemy	Dec 2020
Stanford Algorithms Specialization	2021

Technology and AI Academy Accreditation – Generative AI Fundamentals – Databricks	Apr 2024–Apr 2026
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Language and Other Norwegian A2 – Lingu AS	Mar 2025
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LANGUAGES

English: Fluent (professional level)
French: Fluent (professional level)
Norwegian: A2 (actively learning towards B1)