Andre Silva Gusmao

Phone: +55 031 983820330   **E-mail:** andresg1952@hotmail.com   **Linkedin:** https://www.linkedin.com/in/andre-silva-gusmao/

Personal Website: https://andresilvagusmao.github.io/

Professional Experience

Base2 Tecnologia, Full-time Back End Developer - Brazil

MG, BRAZIL
Dec 2022 - Present

- Development and maintenance of civil engineering systems that substituted 100% of the manual work for construction sites inventory control, work time tracking tool, and third-party external suppliers market.
- Technologies: for back-end development were .NET Core (V 6.0 and 8.0), ASP.NET Core, C#, Microsoft SQL Server (MSSQL), MySql, Entity Framework Core (EF Core), AWS (IAM, Cognito, ECS, EventBridge, Lambda, S3, others), ADFS (LDAP), Datadog, Docker, JMeter. Secondarily, when working with front-end ASP.NET MVC and VUE.

Robert Bosch GmbH, Full-time Intern at Bosch Center of Artificial Intelligence (BCAI)

BW, GERMANY
May 2021 - Nov 2021

- Worked on the research and full-stack development of a condition monitoring system for industrial machinery processes using machine learning and semantic technologies. Our final paper, written along with the development of the system, was referenced in more than 30 articles. In 2021 the system was still being tested.
- Technologies: I used Web Ontology Language, Angular, TypeScript, ASP.NET, .NET Core (V 3.1), PostgreSQL, and C#.

Norwegian University of Science and Technology (NTNU), Part-time Research Assistant

INNLANDET, NORWAY
Nov 2020 - Feb 2021

- Front-end development and research of a machine-learning modeling platform for condition monitoring with semantics in partnership with Bosch. Initial system proposal aims to save millions in industrial processes.
- Technologies: Web Ontology Language (OWL), Angular (V 8.0), JavaScript, Typescript.

SINTEF, Part-time full-stack software engineer

ØSTLANDET, NORWAY
Mar 2020 - Jun 2020 &
Sep 2020 - Nov 2020

- Requirements, prototyping, and full-stack development of a general-purpose assembly line monitoring system.
- Technologies: Mainly Angular (V 8.0) and Typescript, MongoDb(NoSql) and NodeJs.

REF Spatial, Full-time full-stack Developer

MINAS GERAIS, BRAZIL
Mar 2019 - Jul 2019

- Full-time full-stack developer in a car insurance web application with more than 2000 registered vehicles.
- Technologies: Angular for the front-end, Asp.net core, .Net Core (V2.2) with C# for the back-end, and MariaDB for the database. Test Driven Development (TDD) with XUnit and NHibernate as ORM.

Education

MSc - Master of Science. NTNU: Norwegian University of Science and Technology (Norway), Applied Computer Science

June 2019 - June 2022

BS - Bachelor of Science. Pontifical Catholic University of Minas Gerais (Brazil), Computer Science

January 2014 - June 2018

Publications

SemML: Facilitating development of ML models for condition monitoring with semantics

November 2019

Baifan Zhou,   Yulia Svetashova,   **Andre Gusmao**,   Ahmet Soylu,   Gong Cheng,   Ralf Mikut,   Arild Waaler, Evgeny Kharlamov

Publication DOI Link ↗

Projects

Contributor at SIRIUS labs Website Link ↗

November 2019

- Contributed to the research project of SIndAIS4: Scaling Industrial AI with Semantics with ontology models from SIRIUS labs Centre for Research-driven in the oil and gas industry. I contributed on the visual representation of results and models, and development of a GUI for machine learning.

Languages

Spanish: Limited working proficiency. Middle School and private classes.
English: Full professional proficiency. Master's degree taught in English. Work experience.
Portuguese: Native.